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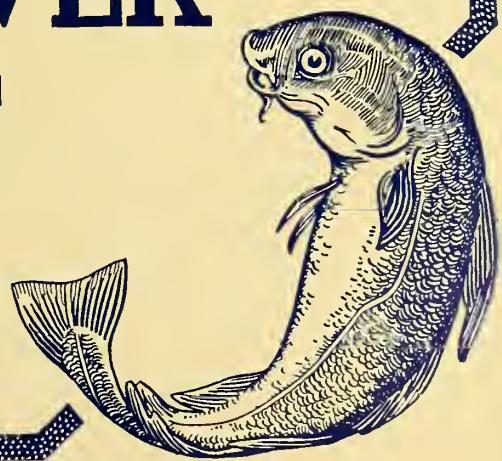
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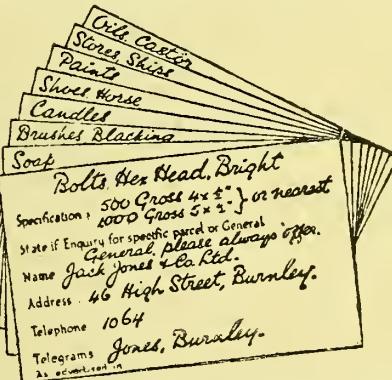
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Four Authorities:

1. "I have very clear evidence of the fact that those who develop such diseases as are mentioned in the following list have suffered for some time from chronic intestinal stasis: non-specific arteritis obliterans, angina peitoris, rheumatoid arthritis, Still's disease, tuberele, exophthalmic goitre, adenoma of the thyroid, Addison's disease, Raynaud's disease, diabetes, ulcerative colitis, mierobie cyanosis, dementia praecox, pernicious anaemia, disseminated sclerosis, paralysis agitans, infective endocarditis, and in many instances alcoholism and the drug habit, and numerous forms of skin disease."

Sir —

"The Lancet"

December 20th 1919. pp. 1123.

2. "Liquid Paraffin, or Russian Mineral Oil, is the agent which, by common consent, is pronounced the most satisfactory in the treatment of these cases." i.e. Intestinal stasis.

W — S — B —

A.M., Sc.D., M.D.

"Chronic Intestinal Stasis"

Woman's Medical Journal

January 1914.

3. "In the New Utopia, where stasis will be regarded as a sin more sinister than sedition, and surfeit more unseemly than schism,.....the function of the police will be the purveying of paraffin....."

Dr

"The Operative Treatment of
Chronic Intestinal Stasis" (1918)

pp. 263.

4. "The Silvertown Company, in particular, are manufacturing a fine standard product which answers all B.P. demands perfectly."

"The Lancet" 2nd October 1915.

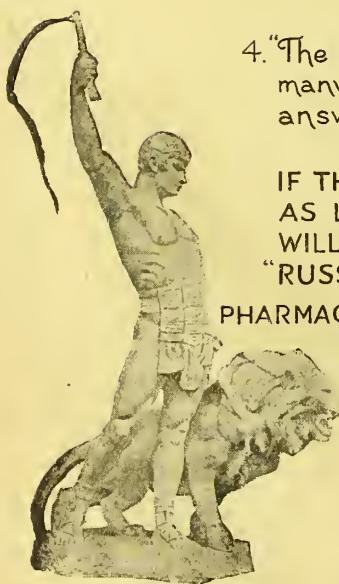
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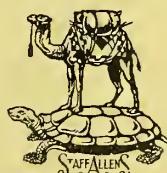


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QUININE

MAARSEN

QUININE and QUININE SALTS.

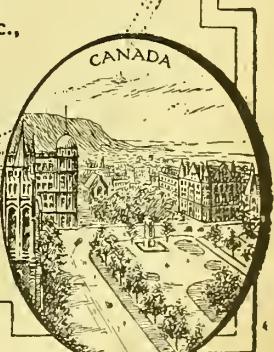
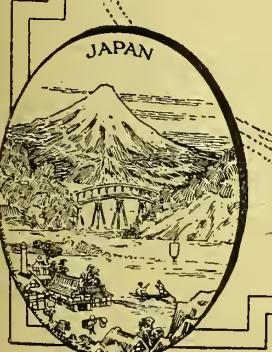
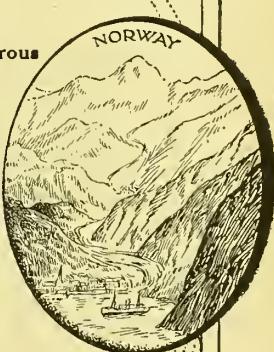
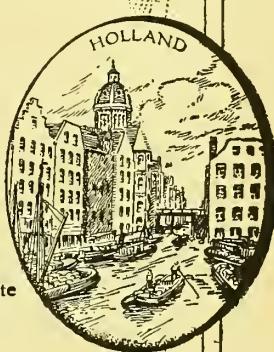
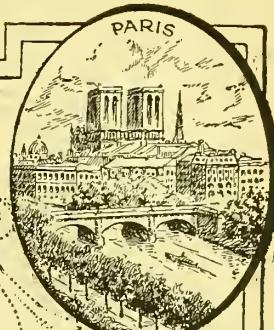
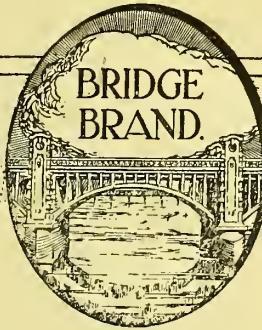
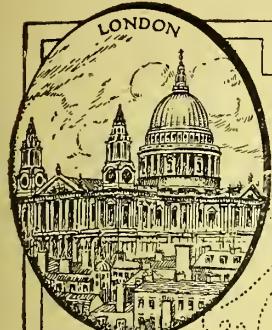
Unexcelled in Uniformity of Quality,
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,
and their SALTS.

MANUFACTURED BY

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AGENTS:— R. W. Greeff and Company,
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PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS.

R. W. GREEFF & Co. offer at lowest prices
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Acetanilid	Guaiacol Carbonate	Potash Sulpho-
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Cinchonine and Salts	Metol	Sugar of Milk
Cinchonidine and Salts	Paraldehyde	Tannic Acid
Citric Acid	Peppermint Oil	Tannin Albuminate
Cocain	Pepsine	Tartaric Acid
Coumarin	Peptone	Terpineol
Creosote Carbonate	Phenacetin	Terpine Hydrate
Eucalyptus Oil	Phenazone	Theobromine
Gallic Acid	Phenolphthalein	Thymol Crystals
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C. R. HARKER, STAGG & MORGAN LTD.

Extend a very cordial invitation to their many friends who will be attending the Chemists, Exhibition this year to call at their RECEPTION ROOM STAND situate in the corridor leading from the large to the small hall.



General Offices and Laboratories,
DEVON WHARF, MILE END, E.1.

Drug Warehouses and Grinding Mills,
BELL WHARF, MILE END, E.1.

Established in 1820 at Laurence Pountney Lane, Cannon Street, E.C.

**Owbridge's
LUNG TONIC.**

THE OLD ORIGINAL OF UNIVERSAL REPUTATION.

PRICE PROTECTED AT FACE VALUE.

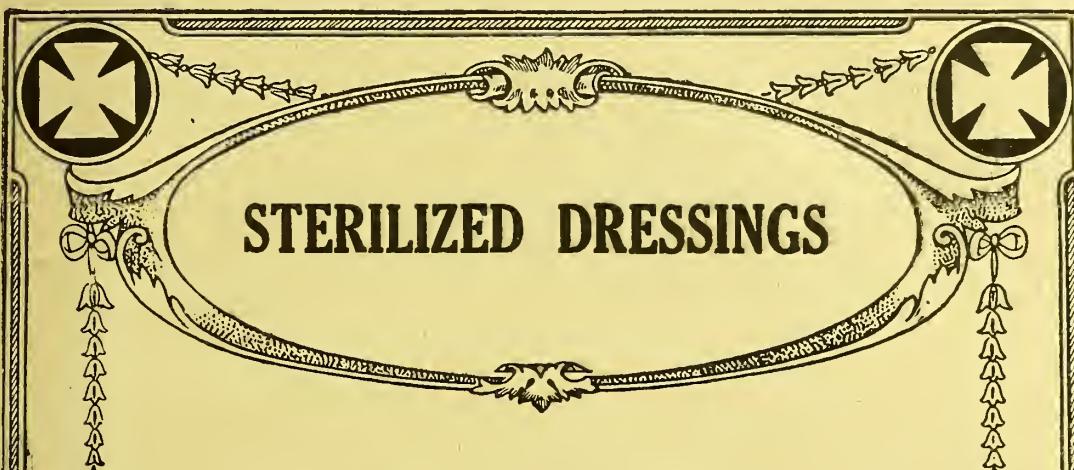
Call on us at the

CHEMISTS' EXHIBITION.

APRIL 12th to 16th.

STAND No. 104.

W. T. OWBRIDGE, LTD., The Laboratory, HULL.



STERILIZED DRESSINGS

Chemists' Exhibition

AT
NORTHAMPTON INSTITUTE
LONDON

APRIL 12 to 16, 1920

We shall be there with a bigger and better display than last year, and a welcome awaits you at

STANDS No. 71, 72, 73 and 74

(Main Hall)

Invitation tickets on application.

ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

Visit the
PHOTOGRAPHIC FAIR
at the
HORTICULTURAL HALL, WESTMINSTER & C.

Everyone should visit this exhibition of the very latest for the betterment of Photography. The most representative and interesting exhibition of Photographic products yet held.

Novel cameras and appliances. Wonderful lenses,
the product of experience gained during the war.

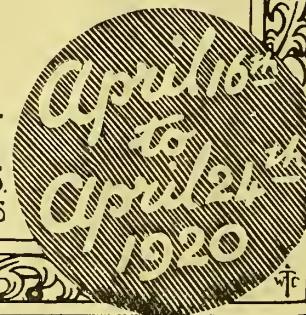
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11 till 9

ADMISSION 1/6
INCLUDING TAX

LUNCHEONS.
TEAS, DINNERS



MONDAY, APRIL 12, 1920

Memo

*When you are
visiting the
Exhibition at the Horticultural
Hall, Clerkenwell
DON'T FORGET TO
CALL AT THE DELPHINUS
STAND (No 5)!*

*We look forward to
meeting old friends
to making new ones.*

THE
Delphinus
 MFG., CO.

RETAIL PROFITS 33½%-75%

PRODUCTS:

Face Cream, Dental Cream,
Brillantine (solid and liquid)
Pomade Hongroise, Nail Polish,
Shampoos, etc.

POLICY:

Maximum Quality - Minimum Price.

ADDRESS:

45, Edward St., BRIGHTON. Cables, Wires: HONGROISE
BRIGHTON.

SPECIAL OFFER -

X 10% Rebate given on all orders placed during X
Exhibition Week.

Maw's Page

S. MAW, SON & SONS, LTD.

NUMBER 443.
APRIL 10, 1920.



Customers of 1934

"And now, my little man, what can I do for you?" This was the crowning indignity! The small boy had entered the pharmacy quite ten minutes ago. An impetuous nursemaid had followed on his heels, and rapped out her orders over his head. While the parcel was being made up the door-bell signalled another customer.

The boy took in the situation at a glance, and planked a sixpenny-piece on the counter meaningly.

The assistant would not see him. Instead, he exchanged a familiar "Good Morning, Madam," with the new arrival, and proceeded to deal with her requirements.

Three times was the little boy outflanked. When at last the shop was clear, the assistant bent over and put the above question to him.

The youthful customer had formed certain terse opinions of the treatment accorded to him.

"You've called me a *little* man and I'm in standard four . . . you've kept me waiting no end of a time! . . . They don't do that at the Drug Stores, and there's a ripping clockwork soldier in their window . . . I'll get mother's soap *there* next time."

The assistant expeditiously disposed of the boy and wondered at his highly coloured face.

It may be a perfectly justifiable policy to attend to the elderly customers first. There is another side to the question.

Children are impressionable and sensitive. Ideas formed while young will linger in their memories when later experiences have been forgotten.

The present infant population of the district is going to be a big factor in your business a very few years hence.

A child sent on an errand will instinctively go where the best attention is given. The habit will grow with it.

We are not going to suggest that the Chemist's attitude towards child custom will either make or mar his business. It is just a phase of pharmacy sometimes overlooked.

Discus

TELEPHONE: CITY 7 (PRIVATE BRANCH EXCHANGE).

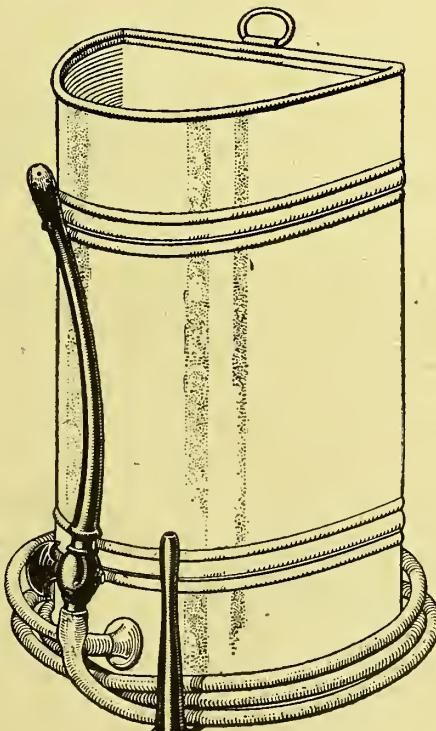
TELEGRAMS: "ELEVEN, CENT, LONDON."

Maw's—*"The House of the Moment."*

Maw's Family Douches

OWING to the increased cost of tinplates and labour, we find ourselves reluctantly compelled to advance the prices of our douches.

These two reliable models are fitted with six feet of best quality india-rubber tubing, vulcanite vaginal and rectal pipes and stopcock ; packed complete in card box.



PRICES:

WHITE JAPANNED TIN
DOUCHE :

1	2	3	4	pints.
50/-	52/9	61/6	72/-	per doz.

WHITE ENAMELLED
STEEL DOUCHE :

Prices Reduced.

2	3	4	pints.
60/-	68/-	90/-	per doz.

Special quotations sent free upon request for cans only.

All prices are subject to our usual terms, i.e. 5% monthly account.

'ROCHE PRODUCTS'

CHEMISTS' EXHIBITION,

April 12-16.

STANDS

No. 134 & 135.

Alkaloids & Fine Chemicals.

'Roche' Specialities:

'DIGALEN,' 'OMNOPON,'
SEDOBROL,'

'THIOCOL,' 'THIGENOL,' &c.

THE HOFFMANN-LA ROCHE
CHEMICAL WORKS LTD.,
788-1001 LANE, LONDON N.E. 8.

£13 brings in
in one week **£200**
and still coming in.

A Satisfied Advertiser

Messrs. Thompson & Haines, Boot and Shoe Manufacturers, Leicester, writing to the *Christian Herald* on March 5th, 1920, say:—"The result of the advertisement in only one issue has been so good that it surprised us ; we have been so rushed with orders that in a few cases we have not been able to supply yet. The £13 advertisement has brought nearly £200 worth of satisfied customers from the British Isles, Shetland and Orkneys, Jersey and Guernsey, etc., and still coming in."

The above is one of many such letters from clients in many lines of business, which prove that for selling direct or through the trade it pays to advertise in
THE CHRISTIAN HERALD
For Specimen Copy and Rate Card apply to :—
Advertisement Manager, 6 Tudor St., London, E.C.4.

QUICKSILVER
FROM STOCK.

K. MALMBERG,
110 Cannon Street,
LONDON, E.C.4.

AND AT NEW YORK.

Telegraphic Address:
"O tempero, Cannon, London."

Telephone No. :
City 6321.

THE CHEMISTS' EXHIBITION

At Stand No. 83 will be seen a representative selection of PARKE, DAVIS & CO.'s Standard Preparations, which are widely favoured by reason of their reliability, style and adequate protected profit. The following may be selected for particular attention at the present time—

Euthymol Tooth Paste

Sales are well-maintained, and are bound to be further increased by the judicious publicity now appearing.

M.R.P. 1/3

Hydrogen Peroxide Solution, P.,D. & Co.

A stable solution, reliable for medical or toilet purposes. If you recommend the P., D. preparation the label will make further sales by indicating many other uses.

*M.R.P. 4 oz. 1/3
8 oz. 1/9 ; 16 oz. 2/8*

Germicidal Soap (McClintock)

Apart from supplying the regular demand by doctors and nurses, Germicidal Soap may be recommended for many purposes to other customers.

M.R.P. 1/3

Hydrated Magnesia

An efficient antacid, prescribed by both doctors and dentists. Each fluid ounce contains 32 grains of Magnesium Hydroxide.

*M.R.P. 8 oz. 1/2
16 oz. 2/-*

Bath Crystals, P., D. & Co.

A summer line of which nearly every sale brings repeat orders. The perfume is unique, and as the container holds nearly 1½ lb. it is good value.

M.R.P. 3/-

New Seasonable Products will also be on Exhibition.

PARKE, DAVIS & CO.

50-54, Beak Street, LONDON, W.1

Laboratories : : Hounslow, Middlesex.

The Big Four

MOST POPULAR

CLINICAL THERMOMETERS.

No. 1. The "Family" or ordinary.
Retail value - - 4/-

No. 01. The "Legible Family" with
Lens Magnifying Index.
Retail value - - 4/6

No. 2. The "Nurse," registers in
one min. Retail value 5/-

No. 4. The "Practitioner," regis-
ters in one min. with Magni-
fying Index. Retail val. 5/6

 Wholesale Trade Terms with some Facts about the Clinical Thermometer not generally known will be sent upon application to the Manufacturers—

POWELL'S THERMOMETER CO.,
55 HATTON GARDEN, LONDON, E.C. 1.

Incubator, Dairy, Veterinary, Chemical and Industrial Thermo-
meters, Urinometers, and Hydrometers promptly supplied.



ZEAL'S REGISTERED Clinical Thermometer

The "REPELLO"

Requires no shaking down. Guaranteed Accurate.
A 30-Second Pushed back
in an instant.

Good
Selling
Lines for
Chemists

Shewing flattened,
bulb at end.

NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying
Clinical Thermometer on the Market.

IN FOCUS.

OUT OF FOCUS.

The square mark engraved on lens front
locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND 1907.
SILVER MEDAL, INDIA 1909. SILVER MEDAL, LONDON, 1913.

G. H. ZEAL, 82 Turnmill St., LONDON, E.C.

Wholesale Manufacturer of

CLINICAL THERMOMETERS.

CONTRACTOR TO H.M. GOVERNMENT.

Established 1888.

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Effective, Showy, and
Very Saleable

Losall's - - Ball-Room Floor Polish

For quickly producing
a perfect Polish on
Floors for Dancing.

Handsome three-coloured
Enamelled Tin,
Perforated Top.

P.A.T.A.
1/6 Per Dozen,
13/6



LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants and
Manufacturing Chemists,

HULL.

AYRTON'S WEEKLY

PAGE
15

Why buy a new hat?

A 3^d. packet of Ayrton's Straw Hat Cleanser will make last year's hat like new.



PRICES

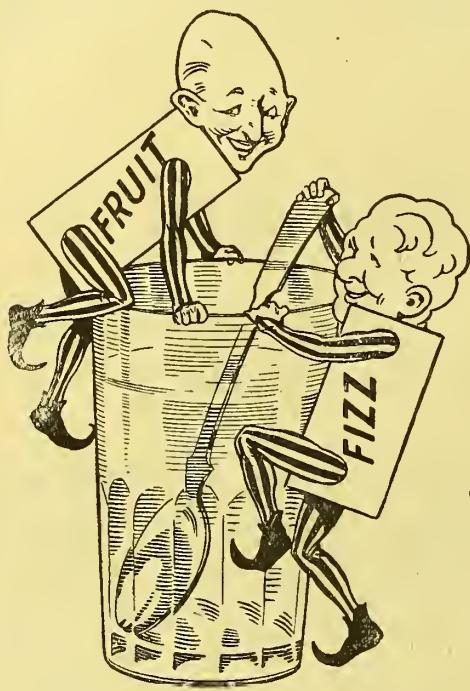
Retail—
3d. per packet.

Wholesale—
1/9 per dozen,
20/- per gross.

Ayrton's Straw Hat Cleanser is an efficient non-poisonous preparation, attractively packed—2 dozen packets on a well-worded Showcard.

AYRTON, SAUNDERS & CO. LTD.
Manufacturing Chemists

LIVERPOOL



For an outlay of £3 : 12 : 0
less 2½% cash with order,
your order would be 6 doz.
cartons. These sell at 1/6
each, yielding £5 : 8 : 0,
and showing a return of
£1 : 17 : 10. This repre-
sents a profit of 52½%.

For an outlay of £7 : 4 : 0
less 7½% cash with order,
your order would be one
gross cartons. Selling at
1/6 per carton, this yields
£10 : 16 : 0, and shows a
return of £4 : 2 : 8. This
represents a profit of 57½%.



*Further Chatter from the
"Quenchers":*

Together we go into thousands of
cartons to meet the great demand
for

Quencholeen LEMONADE

"The Perfect Summer Drink."

Mr. FRUIT : "Aren't we having a time since we introduced ourselves here a fortnight ago?"

Mr. FIZZ : "Yes, we are. But it is only what we expected, so we're happy."

Mr. FRUIT : "And being booked up as fast as this, we are certainly going to have a busy time making people happy and satisfied with our fruity, quenching drink."

Mr. FIZZ : "It stands to reason, of course, when we are so full of good things, the people will enjoy us thoroughly in the hot summer days to come."

Mr. FRUIT : "And the retailers who stock us will be happy, too, when their tills are clicking almost incessantly on Quencholeen sales."

Mr. FIZZ : "I have a good head for topping your flavour, but at figures the retailers—well, they know what over 50% means to their turnover and balance-sheet."

Read the news on the left—then lose
not an instant in booking your share
of Quencholeen for the Summer
Months.

Selling Agents for England, Ireland & Export :

Messrs.

PATTINSON & MACKIE, Ltd.

Albion House, 59 New Oxford St., London, W.C. 1

VOLIV MANUFACTURING COMPANY
26 Haymarket Terrace, EDINBURGH.

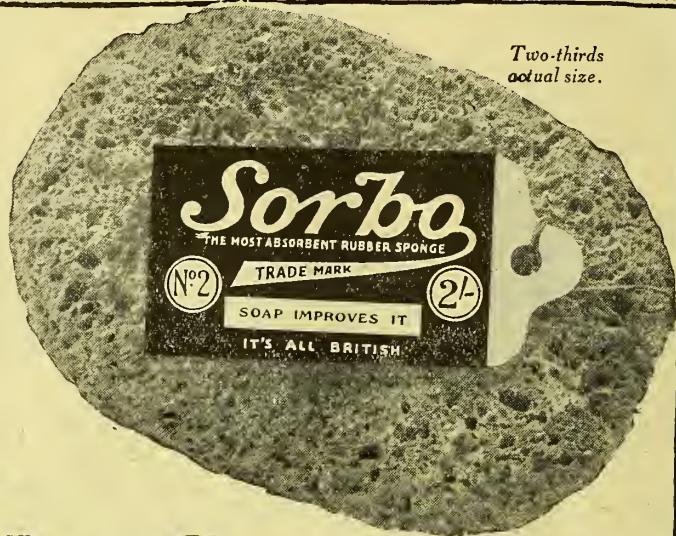
PRICE LIST of EFFERVESCIBLES.

Name of Product.	Size.	Net Price.
Zone Salt	2/6 Bottles	21/- doz.
Mineral Spring	2/- Tins	17/- doz.
Mineral Spring	1/- Tins	8/6 doz.
Fruit Saline (Vine Carton) ...	8 oz. Chelts.	21/- doz.
Tonic Saline (Red & Grn. Ctn.) ...	6 oz. Chelts.	17/- doz.
Fruit Citrate	Bulk	3/- lb.
E.545, Sugarless...	Bulk	3/3 lb.
E.545, Sugarless	6 oz. Chelts.	19/- doz.
Dr. Beresford's Liver Salt ...	10½d. Tins	7/6 doz.
Dr. Mackenzie's Liver Salt ...	1/- Tins	9/- doz.
Carlsbad Salts	5 oz. Chelts.	17/6 doz.
Blood Salts (L.J. & S.) ...	1/- Tins	9/- doz.
Health Salt	Bulk	2/3 lb.
Health Salt (Enamelled Tins).	1/- Tins	9/- doz.
Hygeia Salt (Enamelled Tins).	1/- Tins	9/- doz.
Citrate of Magnesia	Bulk	3/- lb.
Granular Magnesia	Bulk	3/- lb.
Sterisalt	1/6 Bottles	12/- doz.

**THOMAS KERFOOT & CO LTD,
BARDSTON VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.**

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Big repeat orders for Sorbo Sponges



Sorbo Sponges will be exhibited at **THE CHEMISTS' EXHIBITION**, Northampton Polytechnic Institute, St. John Street, Clerkenwell, Stand 120, Hall B, April 12 to 16. Make a special note to call.

EVERY day we are receiving orders for more and more Sorbo Sponges.

Retailers are selling Sorbo Sponges as fast as they can get them. For this natural-coloured all British rubber sponge is exactly the hard-wearing, soft, absorbent and inexpensive sponge the public requires.

Soap improves them and they improve with use.

Thousands and thousands of pounds are being spent this year to advertise Sorbo Sponges and create a national demand for the finest rubber sponge in the world. Week after week, sales of Sorbo Sponges will go up and that increased trade will be permanent. It will certainly pay you to order your stock now, so that you can benefit by the big demand from the very first.

Send a trial order to-day and display Sorbo Sponges. A parcel of three dozen assorted sponges will show you 33½% profit.

YOUR WHOLESALERS CAN SUPPLY

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

Protected Retail Prices:

No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-; No. 4R, 7/6; No. 5, 10/6.

SORBO RUBBER-SPONGE PRODUCTS, LIMITED,

Telephone :
CITY 9372.

24, Walbrook, London, E.C.4.

Telegrams :
Osorbeau, London.



*Literally
sell themselves*

“SANOID” BORACIC SOCKS

Many Chemists have enjoyed the ready sale of Boracic Socks which Literally Sell Themselves.

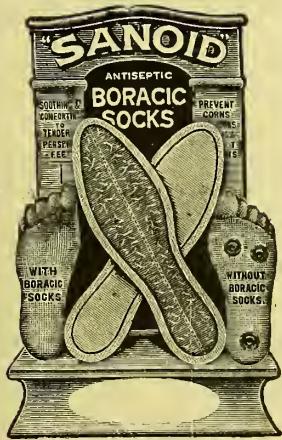
8/6 per dozen pairs.

99/- per gross pairs.

RETAIL PRICE 1/- per pair.

ON P.A.T.A. LIST.

Sample Pair Post Free on Application.



Facsimile of Showcard

Cuxson, Gerrard & Co.

LIMITED,

OLDBURY, near Birmingham

*Foreign and Colonial Orders
Invited.*

NESTOR MOURANCHON.

Offices: 40 Rue Damremont, PARIS. Telegrams: "Barthgay Paris." Telephone: Marcadet 15/92.
Distilleries and Laboratories; Chateauneuf-Val-St.-Donat (nr. Grasse), and Romans (Drôme).

SPECIALITIES: Menthes, Neroli, Petitgrain, Patchouli,
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Ylang Ylang, Musk, Ambre.

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We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

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Bergamot

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Cinnamon

Clove

Dill

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Lavender

Lemon

Limes



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ALDEHYDE
GERANIOL**

CITRAL

EUCALYPTOL

Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
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— SICILIAN —

**LEMON - BERGAMOT
ORANGE - MANDARINE.**

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The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have trusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.

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A.B.C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: Hop 898.

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SPECIAL OFFER.—To introduce these goods we will send at present on receipt of 30/-, four ounces assorted, free of all charges, to any country in the Postal Union.

*Cognac :: Curaçoa :: Kirsch :: Kümmel
Maraschino :: Vermouth*

Concentrated Essences for Liqueurs of the Benedictine and Chartreuse types at the above price, but these words being registered, it must be distinctly understood that the Essences do not profess to make the genuine liqueurs, neither must the liqueurs be sold under these names, nor the packages or "get-up" imitated in any way.

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*Licensed Compounders of
Essences, Spirits, Perfumes, &c.*

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Artificial Musk

INQUIRIES SOLICITED. LARGE STOCKS

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Just think what you can save and make by manufacturing your own Toilet Lotions, Hair Tonics, Brilliantines, Perfumes, etc.

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If you use the world-famous Preemo Essences, etc. They are easy to mix, soluble in water, spirit and oil, and absolutely unrivalled for purity, strength and odour. No Plant or Apparatus is required, no experience necessary. With trial orders we supply useful and valuable Recipes which you can easily follow. Begin making your own Toilet Preparations without delay, thereby advertising your own business and securing for yourself the big profits at present going into the coffers of the big Proprietary Houses. All you need to start is a small supply of Preemo Essences, etc., a few Bottles and Labels, and we will give you all the information and assistance you may require.

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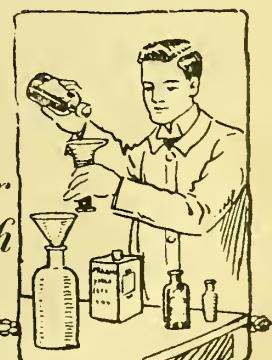
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The Perfume of PAUL POIRET, Paris.
Amazingly original and beautiful.

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SHOWS 50 % PROFIT ON COST.

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Powder,	to retail at	10d.	1/9	3/3
Creme	" "	1/3	2/6	3/9
Parfum	" "	5/-	14/6	16/6

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and receive same back for credit if you
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THE "D & O" BRAND

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OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
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DO NOT MISS “Stand 95”

THE BRITISH TOILET AND PERFUMERY COMPANY
64 Great Titchfield Street :: :: LONDON, W.I.

AN EXCLUSIVE DISPLAY OF THE “1915” SERIES OF
TOILET PREPARATIONS WILL BE MADE, AND ALL
VISITORS TO THE EXHIBITION SHOULD NOT FAIL
TO INSPECT THE FULL RANGE OF LINES SHOWN.

**A SPECIALLY ATTRACTIVE
BONUS OFFER
WILL BE MADE TO ALL CALLERS AT
Stand 95**

WHERE INSPECTION OF THE [UNDER-MENTIONED

HIGH GRADE TOILET SPECIALITIES

WILL BE HEARTILY WELCOMED.

“1915”		“1915”
Eau de Cologne		Old English Lavender Water
Bay Rum	Brillantine	Hair Cream Bath Cubes
Toilet Paraffin	Depilatory	Nail Polish
Henna Shampoo	Eau de Cologne Shampoo	Dry Shampoo
Vanishing Cream	Massage Cream	Cuticle Cream
Milk of Orchids	Poudre de Complexion	Eau de Quinine
One-Drop Concentrated Ottos		Perfumery Extracts
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NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities—Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

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THREE GOOD SELLERS THAT PAY WELL

FROZOCLOONE

(The original solid Eau de Cologne).

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THE WORLD'S GREAT
PERFUME AND
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Retails (P.A.T.A.)
Minimum - 3/-
giving at least 10d. Profit
on each sale.
26/- per doz.

FROZOCLOONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

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A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

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The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.
Retail (P.A.T.A.) Minimum 2/3
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TOOTH PASTE

"STRONG" OR "MILD"

THE SUPER PASTE

"ENOLIN" IS ALSO SUPPLIED IN POWDER FORM, 6d. and 1s. TINS.

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PROTECTS from all weathers, preserves the COMPLEXION
SOFTENS ROUGH HANDS
MOKOL FACE CREAM FOR THE SKIN
Reg. INDISPENSABLE IN THE HOME Reg.
For LIBERAL Wholesale Terms write to—
THE MOKOL CO., 98 Hatton Garden, London, E.C.

All Chemists and Stores adjacent to Theatres and Music Halls should stock the famous
LEROZA Theatrical Cold Cream and Grease Paint Remover.
Used and recommended by all the leading artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/9 per tin box (about 11 oz.) costs 15/6 per dozen carriage paid. Cash with order.
From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD
The LEROZA THEATRICAL STORES, 71, 73 & 75 Cambridge St., Glasgow.

PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write stating requirements.

MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.

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Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Oxf. Street, W.1.
ORIGINAL GUNNA SHAMPOO.



Toilet Preparations.

This exclusive series of dainty aids to the toilet constitute a selling line without equal. Their attractive appearance immediately claims the attention of customers who find them to be of such excellence that they quickly repeat. The terms leave a handsome margin to you for selling. These preparations are being extensively advertised in the best high-class illustrated and magazines, etc.

YOUR WHOLESALER WILL SHOW YOU SAMPLES,
OR OUR REPRESENTATIVE WILL BE PLEASED TO
CALL UPON YOU WITH A FULL RANGE.

"Oasis" Dainty Toilet Aids for Discriminating Folk. (1)

The General Chemical & Pharmaceutical Co., Ltd.
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Druggists' Sundriesmen,
54 Lower Thames Street, E.C. 3

beg to inform their many friends in the MANCHESTER area that there is now a Showroom where their goods can be inspected,
at Office No. 7, 49 DEANGATE.

If unable to call, a card will bring our representative to you.

Think it over!

THESE ARE
JUST THE
LINES YOU
WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.



"LEONA" DENTAL CREAM

(Mint or Thymol)

Small Size ...	Cost 4/6 per dozen	Sell @ 7½d.
Large Size ...	" 8/- "	" @ 1/3

Recommended by the Institute of Hygiene.

"LEONA" CREME DE BEAUTE

Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

"LEONA" BRILLIANTINE (SOLIDIFIED)

Cost 8/6 per dozen Sell @ 1/-

Packed in beautifully embossed tins and cartons.

POUDRE "LEONA"

Cost 8/- per dozen Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

Every Line is a work of art.

Ask your wholesaler to show them to you, and

YOU WON'T REGRET IT

Sole Manufacturers and Proprietors—

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A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C. 4.

Please note that the prices of
Poudre de Riz de Java (Bourjois)
 are as under :

1/6 size.	No. 45	1/2 size.	No. 495
1 doz. -	13/- per doz.	1 doz. -	10/- per doz.
6 "	12/9 "	6 "	9/9 "
12 "	12/6 "	12 "	9/6 "

The P.A.T.A. prices for Java Powder have been increased to
 1/6 and 1/2 per box.

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INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
 LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A.
 Retail Price 6d.

Of the Makers:

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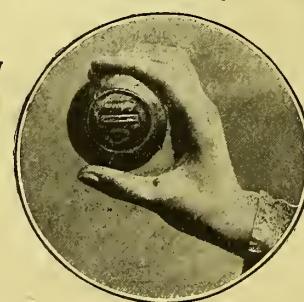
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Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

B. quality
 Brown
 Fur,
 3/11
 each,
 Retail.



G. quality
 Grey Fur,
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 Retail.

Additional Powder Bags, 6d. each, Retail.

Revolution in Powder Puff Manufacture.
 Thousands already sold.

Now stocked by leading Wholesale Houses.
 Usual Trade Discounts.

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LINDOL

DENTAL POWDER & PASTE.

These remarkable dentifrices are very high grade preparations, and cannot do other than give your customers the greatest satisfaction. Have you ordered your stocks? The margin of profit shown to the retailer on these lines is probably the highest obtainable, working out at from 112½ per cent. to 133½ per cent.

LINDOL DENTIFRIES are obtainable from your usual wholesaler in any quantity at the following prices:—

	Min. Retail P.A.T.A.	Price per dozen.
DENTAL CREAM.		
In tubes 4½" × 1", in cartons -	1/-	5/10
In tubes 4" × ¾", in cartons -	-/7½	3/8
DENTAL POWDER.		
In tins : : : : -	1/-	5/6
In tins : : : : -	-/7½	3/4

Terms.—Monthly account, 2½ per cent. discount. Cash with Order, an additional 1½ per cent. discount.

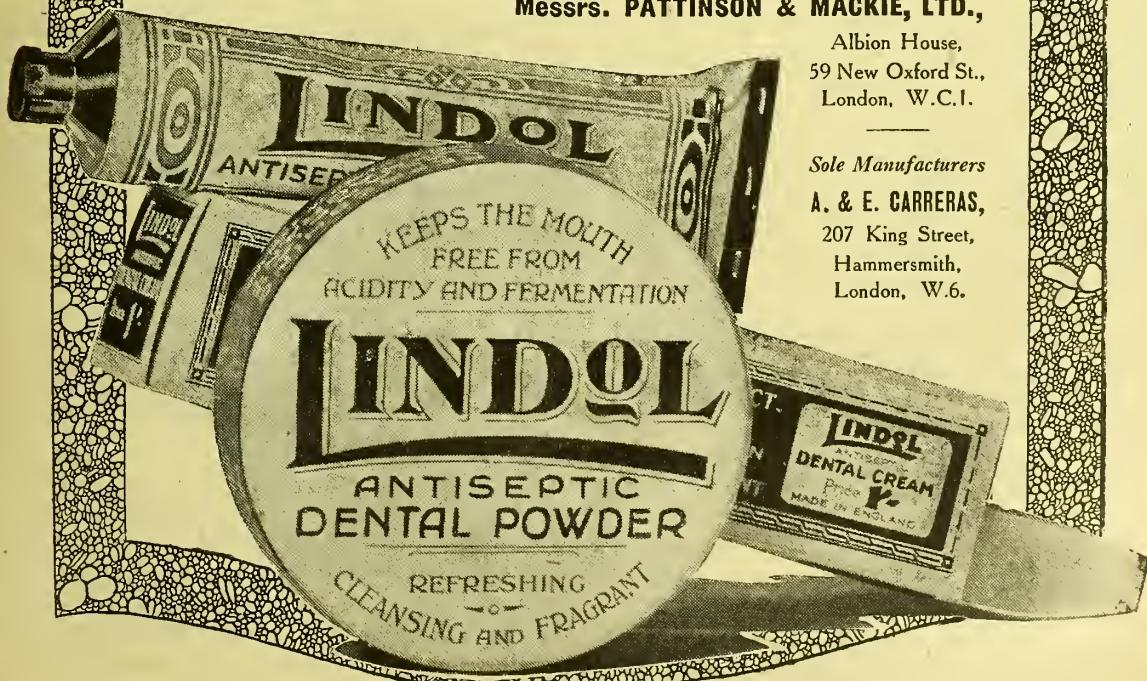
Minimum direct parcel, 50/-, unless cash is sent with order.

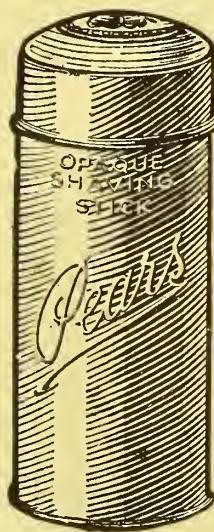
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Messrs. A. & F. Pears, wish to remind their friends that the Protected Retail Price of their White Opaque Shaving Stick has been advanced to

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STRODONIA Vanishing Cream.

NOW SUPPLIED IN
ALUMINIUM
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FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10/0 subject to 2 doz. 1/3 size Bonus for window display, net.; £1/10/0 subject to 3/4 doz. 1/3 size Bonus for window display, net. Carriage paid on £1/10/0 upwards.

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The Dye with a Reputation for reliability.

ROYAL COURT HAIR DYE

SEVEN SHADES.

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The only dye giving a natural gloss to the hair.

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Toilet Preparations.

These lines are all a *lucrative* source of profit to you, and their quality, and the very attractive manner of their presentation to the public, assure that the advantageous terms offered you are regular and continual.

The containers are covered with a very striking design of old gold and black diamonds, giving a very arresting yet dignified effect.

Their quality is backed by our high reputation, nearly three centuries old.

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Vanishing Cream
Face Powder
Dental Cream
Brillantine (solid)
Bath Crystals
Talcum Powder
Shaving Stick
Shaving Cream

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Hundreds of Orders direct from the Public.

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We want YOU to have this Business.

You should sell Sapon Skin Soaps:—
Because we, the makers, are entirely unconnected with any Combine.

Because Sapon Skin Soaps once used are always ordered. You will have a steady sale and the satisfaction of knowing that you are supplying the best. (Sapon Skin Soaps are recommended by many eminent Doctors.)

Because Sapon Skin Soaps yield a larger profit to you than any other make, while still being sold to the Public at a low price.

Write to-day for full particulars to



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LIMITED,
LONDON BRIDGE,
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**The Chemists' Manufacturing Co. Ltd.
AND
SHIRLEY BROTHERS.**

**The HOUSE for
TINS AND
CARDBOARD
CONTAINERS.**

**Health Salt & Lemonade Powder
Shampoos**

Ordinary and Henna.

Insect Powder

All Sizes.

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5/3 and 7/6 doz. In Cartons.

Talcum Powder

Decorated oval sprinkler tins. 8/6 doz.

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P.A.T.A. 7½d. 3/6 doz.

Poudre Cecile, with Puff

8/- doz.

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Large Range.

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At prices to suit all classes of trade.

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"Nurse Margery." From 13/6 per gross upwards, fitted with Ribbed Transparent Teats.

Smelling Salts

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In Bulk.

Cold Cream

Superb quality.

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Splendid 3d. line. Etc. etc.

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and see us at the Chemists'
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application.**

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LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
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PROLACTUM For the lips.	10/-	1/-
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ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM A hair tonic.	22/6	2/6
CLEMINITE For a face lotion.	22/6	2/6
COLLIANDUM For a face tint.	22/6	2/6
PERGOL A deodorant.	22/6	2/6
STALLAX For a shampoo.	22/6	2/6
JETTALINE For clearing the skin.	31/6	3/6
PHEMINOL A depilatory.	36/-	4/-
MENNALINE For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL For oily complexions and blackheads.	36/-	4/-
BARSYDE Dandruff eradicator.	22/6	2/6
TAMMALITE For grey or faded hair.	22/6	2/6
LIQUID PERGOL To check excessive perspiration locally.	31/6	3/6
BICROLIUM For whitening the hands.	22/6	2/6
HARAPOSA Nut oil shampoo.	22/6	2/6

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GENTLEMEN'S TOILET REQUISITES.

THE Vinolia Company manufacture a varied line of Gentlemen's Toilet Requisites, and their products are of the highest order. They are all British Goods made by British Labour.

The unquestionable purity and efficacy of Royal Vinolia Toilet Preparations stamp them with the hallmark of quality.

Royal Vinolia Specialities for the toilet may be used with every confidence. We will gladly send free samples to any member of the Medical Profession.

The Vinolia Company's range of Toilet Requisites for both Ladies and Gentlemen is a very extensive one. These Requisites are all alike perfect.

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WAV CURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself, in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

**THE WAV CURL CO.,
FULWOOD HOUSE, HIGH HOLBORN, W.C.1**

Per doz.	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.
	1/6 Duvetine (Superfluous Hair Remover) ...
	1/6 Wavcurl Hair Tonic (in Powdered Form) ...
	1/6 Eyelashine ...
	Showcards for Window ...
	Dummies for Show charge

Agents: PARIS.—A. W. Scott, 38 Rue du Moné Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

For LARGE BUYERS

For SHIPPERS

Good Toilet Goods

SHAVING STICKS.
BRILLIANTINES,
DRY SHAMPOO (Liquid and Powder), BAY RUMS, TOILET
PARAFFINS, LIME CREAMS, POMADE HONGROISE, TOOTH
POWDERS, DENTAL CREAMS, VANISHING CREAMS,
SHAMPOO POWDERS, and all TOILET GOODS.

SAMPLES AVAILABLE

C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL

LOTOZONE

SHAMPOO DE LUXE

A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

Full particulars on request.

TOILET PREPARATIONS

LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The Shampoo Salesman, free on application, gives full details of prices and profit.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1.



SPEROL THE HAIR FOOD

MISS GLADYS COOPER USES IT, AND SAYS IT IS
THE FINEST HAIR TONIC SHE HAS EVER USED.

The bottle is an ornament to any showcase.

Very attractive pictorial showcards. Wholesale prices leaves a good margin.

THIS PREPARATION IS BEING EXTENSIVELY ADVERTISED IN
THE ILLUSTRATED WEEKLY PAPERS.

Write to the Sales Manager,
The Richmond Pure Drug
Co., Richmond, Surrey.



London's Famous Stars
Use and Recommend Fragrant

CINEMA SOAP

The Cream Soap "Exquisite"

WILL MAKE YOUR FACE A PICTURE

Trade Mark Copyright at home and abroad

Our Special Offer

Cinema Soap is wrapped and packed three tablets in a box which retails at 2/6, single tablets sell at 10½d. each. Our price is 22/6 per dozen boxes. Every Chemist sending for one dozen boxes *within 14 days* will receive

Three dozen Cinema Crushed Rose Face Powder Free, together with sale cards, cinema photos, and advertising matter; also we will send, by special arrangement with the Amalgamated Press, Ltd., 500 copies of "The Picture Show" free of charge. Just figure this value out and send without delay. Cross cheques and P.O.s.

**THE CINEMA SOAP COMPANY, Ltd.,
(Dept. 22) 22 Finsbury Park Rd., London, N.4.**

Mr. Fred Barnes, writing from the London Palladium, says:—"Cinema Soap is without question the best and most delightful soap, for the skin I have ever used, whilst Cinema Dentifrice is a wonderful preparation. For a long time I have been trying to discover a dentifrice which actually does whiten the teeth without injury. Hundreds of preparations claim to do this, but all they really do is to polish up the surface. I have used Cinema Dentifrice with splendid results. Not only does it make the teeth snowy white, but it has, I find, a tonic effect on the throat, a fact very important to all artistes. I think it is a wonderful preparation, and gladly recommend it to my brother and sister artistes.—Faithfully yours, FRED BARNES."

Miss Violet Vanbrugh and hundreds of other well-known stars use and recommend these super-toilet specialties. They are the latest and best in the world.

SOLID BRILLIANTINE



No. 3394.

In Green Enamelled Oval Tin Boxes. Assorted Odours.

7/6 doz.

No. 3171.

In Green Enamelled Square Tin Boxes. Assorted Odours.

5/6 doz.

Customer's name free on 3 dozen of a kind.

Subject to Usual Terms.

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OUR Colognes
Lavender Waters
Toilet Specialities
Hair Creams
Toilet Paraffin
Brilliantine
Honey and Flowers
&c.

represent all you are looking for. Most attractively put up, excellent quality. Show big profits.

OUR AIM IS SATISFACTION.

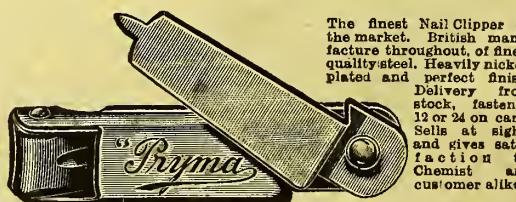
WALDEN, WALDEN & CO.
Manufacturing Perfumers,
89 GT. PORTLAND ST., LONDON, W. 1.

Support Home Industry

A GOOD SELLING PROPOSITION:
50% ON COST - 33 $\frac{1}{3}$ % ON SALES
BY SELLING

'Pryma' Nail Clippers

(BRITISH MANUFACTURE)



The finest Nail Clipper on the market. British manufacture throughout, of finest quality steel. Heavily nickel-plated and perfect finish. Delivery from stock, fastened 12 or 24 on card. Sells at sight, and gives satisfaction to Chemist and customer alike.

Trade Price - - - **16/- doz.**

Write to-day for Sample Card.

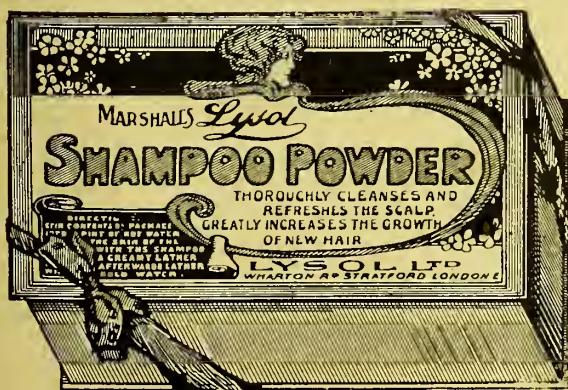
To be obtained from all the leading Factors,
or from the Proprietors,

WARMINGTON, TURNER & CO.

11 QUEEN VICTORIA STREET,
LONDON, E.C. 4.

Telegrams: "Oewarmitur, Cannon, London."

Phone: Central 7831.



LYSOLINE HAIR TONIC

will not belie your recommendation for making hair wavy and bright, removing dandruff and cleansing the scalp.

It sells at 1/6 per bottle to-day

and is well advertised. You can try it yourself free if you send us a postcard, and you can buy on window show terms to give you **100 % profit.**

Customers for LYSOLINE are also buyers of

Marshall's Lysol Shampoos

retailing at **3d. each**, loose. You can buy on same terms as above.

Let us send you a £2 parcel paid to your door as a trial.

LYSOL LIMITED
STRATFORD, LONDON, E.

COMBS

Guaranteed Free of Anthrax

SHAVING BRUSHES

Nail, Hair, Tooth Brushes

HYPODERMIC SYRINGES

(French)

SEND US YOUR INQUIRIES

Wholesale and Export only supplied

A. E. DEPRETER

24 Holborn, London, E.C. 1.

Telephone:
Holborn 3182.

Telegrams:
"Aedeprelon, Smith, London."



Anthrax Danger

There is danger from Infected Brushes as recent fatal cases show.

Our Brushes are guaranteed absolutely free from Anthrax

British Made
Genuine Bristle
Perfectly Safe

12/6, 14/6 & 24/- per doz.

Terms—Cash with order. Immediate delivery. Cash returned if sold out.

THE
Jewellers' Novelty Co.,
113 West Regent Street, Glasgow

BIDWELLS LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn	20/- doz.
(Assorted Patterns.)	

ditto Hard, White or Yellow 22/- ,,

ditto Ex. hard ,, 24/- ,,

Mitre	16/- ,,
-------	---------

Elephant	14/- ,,
----------	---------

Anchor	12/- ,,
--------	---------

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes,
but our own make only.

A selected £12 parcel of Hair Brushes
from 50/- to 150/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

April 10, 1920.

The following revised prices are now in force:

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
Gibbs' Dentifice —		
1/6 " De Luxe" size ...	1/6	12/- doz.
1/- Refills ...	1/-	7/- ,,
7½d Popular size ...	7½d	5/- ,,
10d. Kura Soap (Tablet) ...	10d.	78 - grs.
2 6 " (Box of 3 tablets) ...	2/6	19/6 doz. bxs.
9d. Shaving Sticks (Metal) ...	9d.	5/- doz
1/3 " " (Nickel) ...	1/3	9/- ,,
1/6 " (Refills) ...	1/6	12/- ,,
1/- " Cakes (flat in tins) ...	1/-	6/6 ,,
1/6 " Soap in Wooden Bowls	1/6	12/- ,,
1/3 Brilliantine in enamelled case ...	1/3	10/- ,,
1/6 Shampoo Powder (Box of 5 pkts.)	1/6	12/- doz. bxs.
4d. " Packet ...	4d.	
Less 5% discount on assorted orders value 30/-.		
1/6 Kerfoot's Photoloids Developers	1/-	8/- doz.
2/- " Toners	2/-	16/- ,,
1/4 Oppenheimer's Maglactis	1/4	12/6 ,,
3/6 Tamar Indien Grillon (un-stamped) ...	3/6	29/- ,,
1/6 Woolley's Phenate of Soda Solution (½-pt.)	1/6	13/6 ,,
2/9 Ditto ditto (½-pt.)	2/9	24/- ,,
4/6 Ditto ditto (1 pt.)	4/6	39/- ,,
7/- Ditto ditto (2 pt.)	7/-	60/- ,,
12/6 Ditto ditto (4 pt.)	12/6	104/- ,,

It is important to note that each Bottle is guaranteed airtight under all climatic conditions.



"KRASKA"

USED BY
ROYALTY.

The only Perfect Liquid Nail Polish.

MADE IN TWO COLOURS,
ROSE AND NATURELLE.

Kraska Nail Polish	... small	9/6 per doz.	Retail 1/2 each.
" "	... medium	12/6	1/8 "
" "	... large	19/-	2/9 "
" Hand Balm	...	10/-	1/2 "
" Bleaching Fluid	...	10/-	1/2 "
" Cuticle Cream	...	10/-	1/2 "

Obtainable at All Wholesale Houses.

SOLE AGENTS:

FRANCISCO MAYER,
Casilla 2869, Santiago, Chili.
C. E. COLLINGE & CO.,
143 Cannon Street, London, E.C.4
China & Straits Settlements.

Mr. J. WINKEL,
21 Bierkade, The Hague, Holland.
A. E. & F. TOLLEY, Ltd.,
26 King Street, Sydney, N.S.W.
Australia, New Zealand, India.

Other Agents Entertained.

THE KRASKA CO. LTD.
7 BLENHEIM STREET, NEW BOND STREET, LONDON, W.1.

The Mark of



Quality and

Reliability.

**ELLIOTT
OPTICAL
COMPANY**

Proprietary GUY E. DRUIFF.

All descriptions of
Optical Goods and an excellent
Prescription Service.

104 & 105 GT. SAFFRON HILL,
LONDON, E.C.

SEND FOR TRADE PRICE LIST

OF
MECHANICAL DENTISTRY
UNDERTAKEN AT
**THE CITY
DENTAL DEPOT**

103 Newgate St.,
LONDON, E.C.1

SPECIAL NOTICE.—These premises are
embraced by the General Post Office, and
are therefore exceptionally well situated
for express delivery of work to customers
at a distance. This will be particularly
appreciated in the matter of prompt return
of repairs.

Hours of Business:
9 till 6; Saturdays 9 till 1.

Telegrams: "Sinedolo, Cent., London."
Telephone: City 9241.

TEMPLAR MALINS, LTD., Proprietors.

**JOB BROTHERS
GUARANTEED PURE GENUINE
NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL
IS THE FINEST OIL PRODUCED**

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same
day as fish caught

WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address, "JOB LIVERPOOL" Tel. 1039 CENTRAL
And at ST. JOHN'S N.F. Established 1780.

"John Bull"



**MALT EXTRACT
and
COD LIVER OIL**

Does not separate.

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale
and Export only.

PAINES & CO., LTD., ST. NEOTS, HUNTS.

The Cinemas are crowded every evening!

*"The Cinema's the Cynosure
of the Public Eye."*



Advertising, broadly speaking, is a matter of getting the attention of the mass of the people.

The advertiser who acts on the principle of "There, where the crowds are, there go I!" is likely soon to have the individuals who make up those crowds passing through his doorway, *to buy*.

So, Ucal provides members with a series of advertising lantern slides for exhibition on the screen. These are not the inartistic crudities of the average "Cinema Advertising Contractor," but well-designed things, ranking in style with the film-producer's own "announcements." They are daintily coloured, too—and in every way attractive.

Where local facilities exist for this kind of advertising—Ucal provides the means of doing it *well*—with "own name on," of course.

This is only one of many phases of Ucal Advertising Service for members—but done with the usual Ucal efficiency.

Ucal is still receiving applications for membership. Admissions are made in batches, periodically.

UCAL
CHELTENHAM



WE regret to inform our customers that a fire broke out in our factory in Blackfriars Road, on Saturday last. The damage, however, is not serious, and the delay in execution of work will only be temporary.

We confidently rely upon the indulgence of our friends for a short period.

SUTTLEY & SILVERLOCK, LTD., BLACKFRIARS ROAD, S.E.1

F. MERTEN, Showcard, Poster, Window Ticket, &c. EXPERT

UNSOLICITED TESTIMONIAL.

Dear Sir,
PLYMOUTH : March 29, 1920.
You recently executed for us "Special Display Cards" for several of our lines. We have had now the chance of testing one, and it is due to you to say that without any other advertising whatever, the sale of an entirely new line during the first three weeks exceeded 120 bottles.

They are attractively written and possess real pulling power.

Faithfully yours, WM, THOS. DAWES.

112 Warham Road, Harringay, London, N. 4.

THE British Glass Blowers LIMITED

Birnam Works, Birnam Road, Tollington Park, LONDON, N. 4.

Telephone No.: Hornsey 2247.
Telegrams: "Brigable, Finspark, London."

HAND-MADE, FURNACE AND GAS BLOWN CHEMICAL AND SCIENTIFIC GLASS WARE

Of every description made by Highest-class British Labour.

Inquiries and Orders promptly executed.

HAYWARD'S *eureka* WEED KILLER

The Chemist's Favourite Brand.
Easiest to sell. Sales through Agents.

Please write for lists,
terms, &c.

TOMLINSON & HAYWARD, LTD., LINCOLN.



Powder & Liquid.

SPECIAL OFFER !

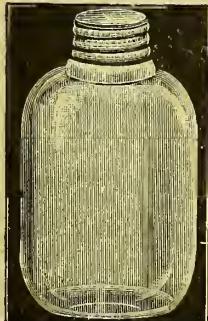
We can safely say that no other firm in London has such a varied stock. Even if you are wanting a special line which we do not happen to have in stock, there is always an alternative one we can let you have.

The following are some of the lines we offer:

SQUAT KALIS, green, 2 oz. size.
 KAY'S ESSENCES, green, 2½ oz. size.
 KALIS, green, 4 oz. size.
 KALIS, flint, 1, 2, 4, 6, 8, 10, 12, and 16 oz.
 LIMES, flint, 2, 4, 6, 10, 12, and 20 oz.
 LIMES, green, 1 and 4 oz.
 MEDICALS, first and second quality, green, plain, and graduated, 4, 6, and 8 oz. Also tinted blue.
 MEXICANS, flint, 1½ and 2 oz. sizes.
 PANELS, green, 4 oz.
 PANEL TOBINS, green, 2½ oz.
 PANELS, flint, 1 and 2 oz. sizes.
 VIALS, green, 1 and 2 oz. sizes.
 VIALS, flint, all sizes; from half-dram. Long series.
 VIALS, graduated, 1 and 2 oz. sizes.

And many more lines too numerous to mention.

Plenty of 4-oz. Medicals



TABLET BOTTLE

Ampoules	Perfume Bottles
Aspirator Jars	Cut stoppered, ½ to 2 oz. sizes.
Brills	Reagent Bottles
Cannons	W. & N. Mouth, from ½-oz.
Douche Linings	Retorts
Dropping Bottles	Screw Jars
Emulsions	Specific Gravity Bottles
Feeder Tubes	Sweet Jars
Glass Unions	Syringes
Nasal Douches	Tablet Bottles
Panels	Nos. 1 to 7
	Test Tubes
	Weighing Bottles



KALI

JULES LANG & SON
CHARLTON WORKS, CHARLTON PLACE,
ISLINGTON, LONDON, N.1

Telephones:
 NORTH 2770-2 (three lines).

Telegrams:
 "ASSORTED, PHONE, LONDON."

Please mention this Paper when sending us your inquiries.

Rexall

TRADE MARK

MEETINGS

Mr. LOUIS K. LIGGETT

Founder and President of the United Drug Company, is now in England, and will address Rexall Agents at the following meetings:—

LONDON, Cannon Street Hotel.	Wed., April 14th, 2 p.m.
" " " "	Thurs., " 15th, 2 p.m.
GLASGOW, Grand Hotel,	
Charing Cross.	Wed., " 21st, 2 p.m.
DUBLIN, Shelbourne Hotel.	Wed., " 28th, 2 p.m.
BELFAST, Royal Avenue Hotel.	Thurs., " 29th, 2 p.m.

There will be a complete display of Rexall products, and representatives will be in attendance

All Rexall agents are cordially invited to these Meetings.

UNITED DRUG COMPANY
114 OLD HALL STREET, LIVERPOOL

**ALWAYS
ADVERTISED**

Zam-Buk

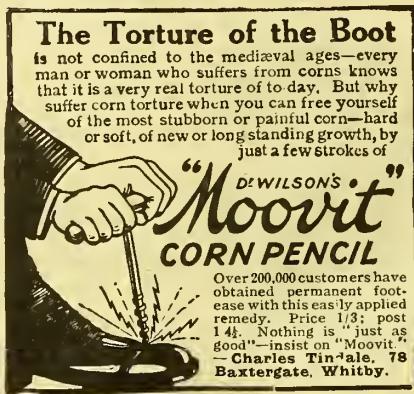
**ALWAYS
SELLING**

C. E. FULFORD, LTD., LEEDS.

IRISH ADDRESS :

16 D'OLIER STREET, DUBLIN.

Style of Advert. in Local Paper.



Your Business advertised FREE for 12 months

YOU can have your business advertised *free* for twelve months if you agree to take up a Sole Agency for "MOOVIT" Corn Pencils.

C During the next few weeks we are going to appoint an Agent in every town in the British Isles, and we have decided upon the following offer.

C If you send an order for 12 dozen "MOOVIT" Corn Pencils, we will make you Sole Selling Agent in your district, and we will insert an Advt. (as above—with your name thereon) in the local paper for 52 weeks. In other words, *you get twelve months' advertising FREE*.

C And you do not require any special knowledge in order to successfully sell "MOOVIT" Corn Pencils, because our advertising in the Daily Press (together with the Advt. in your local paper, and your window display) makes the selling easy ; and you get 5½d. on each stick you hand over the counter.

C Twelve dozen "MOOVIT" Corn Pencils at 9½d. each cost £5/14/0, you sell them at 1/3 each, thus making a profit of £3/6/0. They are attractively packed in display boxes, with striking posters, dummies and advertising matter.

C We guarantee to buy back any unsold Corn Pencils in your stock-room at the end of the twelve months if you feel you cannot dispose of them.

C Isn't that a fair offer ? Then send along your cheque for £5/14/0 NOW, before your competitor gets the agency.

Sole Manufacturers :

TALBOT WILSON

(Howard Stevens & Co., Ltd., Proprietors)

20 Highgate Road, LONDON, N.W.5.

ALTERATIONS IN TRADE LIST PRICES

During MARCH, 1920

The following list relates to the changes in prices which have occurred in respect to staple products or important alterations of prices of products in less frequent demand:—

'TABLOID' BRAND—		Trade List Price per doz.
		25 100
Bismuth and Dover Powder	...	— 30/0
" " an Soda	...	— 24/0
" " Beta-naphthol Compound	—	48/0
" " Carbonate	...	15/0 45/0
" " Rhubarb and Soda	...	12/0 36/0
" " Salicylate, gr. 5	...	18/0 58/0
" " Subgallate, gr. 5	...	18/0 58/0
" " Sabintrate, gr. 5	...	15/0 45/0
" Calcium Carbonate Compound	...	12/0 36/0
" Chinosol, gr. 5, s.c.	...	24/0 84/0
" Emetine Hydrochloride, gr. 1/2, k.c.	108/0	—
" Hexamine, gr. 3	...	12/0 36/0
" " gr. 5	...	15/0 45/0
" Ipecacuanha Powder, gr. 5	...	65/0
" " " gr. 5, k.c.	—	66/0
" Pepsin, Bismuth and Charcoal	...	18/0 58/0
" Rhubarb and Gentian Compound	—	36/0
" Rhubarb Extract	...	12/0 36/0
" Santonin, gr. 1/2	...	42/0 147/0
" " gr. 1	...	78/0 233/0
" " gr. 2	...	150/0 533/0
" " gr. 3	...	216/0 810/0
" " and Calomel, aa gr. 1	84/0 315/0	
" Urotropine, gr. 3	...	12/0 36/0
" " gr. 5	...	15/0 45/0
Trade List Price per doz.		
" Emetine Bismuthous Iodide, gr. 1, salol-coated in bottles of 36	144/0	

'TABLOID' BRAND HYPODERMIC—		Trade List Price per doz.
Emetine Hydrochloride, gr. 1/3 in tubes of 12		36/0
" " " gr. 1/2 in tubes of 12		48/0
" " " gr. 1 in tubes of 6		48/0

'TABLOID' BRAND PASTILLES—		Trade List Price per doz.
		16 36
Benzoic Acid Compound	...	21/0 42/0
" Cocaine Hydrochloride, gr. 1/10	21/0	42/0
" Codeine, gr. 1/8	...	21/0 42/0
" Laxative Fruit	...	21/0 42/0
" Red Gum and Cocaine	...	21/0 42/0
" Rhatany, Menthol and Cocaine	21/0	42/0
" Ammonium Chloride and Liquorice	18/0	36/0
" Glycerin	...	18/0 36/0
" " and Black Currant	18/0	36/0
" " Black Currant an Tannin	18/0	36/0
" " Tannin, Capsicum an Black Curiant	18/0	36/0
" Lemon Juice	...	18/0 36/0
" Linseed, Liquorice & Chlorodyne	18/0	36/0
" Menthol	...	18/0 36/0
" Meathol and Eucalyptus	...	18/0 36/0
" Morphine and Ipecacuanha	18/0	36/0
" Pectoral	...	18/0 36/0
" Pine Tar Compound	...	18/0 36/0
'SOLOID' BRAND—		Trade List Price per doz.
		25 100
Chinosol, gr. 1·75	...	15/0 —
" " gr. 8·75	...	42/0 147/0
" Corrosive Sublimate, gr. 1·75	—	15/0
" " "	gr. 8·75	15/0 45/0
" " "	gr. 17·5	24/0 84/0
'ENULE' BRAND—		Trade List Price per doz.
Santonin, gr. 3	in boxes of 12	132/0
'HYPOLOOID' BRAND—		Trade List Price per doz.
Emetine Hydrochloride, 0·02 gm. (gr. 1/3)	in boxes of 10	66/0
" Emetine Hydrochloride, 0·03 gm. (gr. 1/2)	in boxes of 10	84/0
" Emetine Hydrochloride, 0·065 gm. (gr. 1)	in boxes of 6	84/0

 BURROUGHS WELLCOME & CO., LONDON

"JASMOL"

VANISHING CREAM.

An ideal TOILET CREAM; well got up, exquisitely perfumed, NON-GREASY or STICKY, packed in screw Glass Bottles, Aluminium Capped and nicely cartoned.

Retails at **1/3** Wholesale Price **10/6** per doz.

LESS USUAL DISCOUNT. HANDSOME PICTORIAL SHOWCARDS SUPPLIED.

"JASMOL" is a line that repeats many times over when once introduced.

Sole Manufacturers,

CUPAL Ltd., BLACKBURN

'Ialine' Disinfectants

Also
FLUIDS

containing
10 — 80 %
Tar Acids.

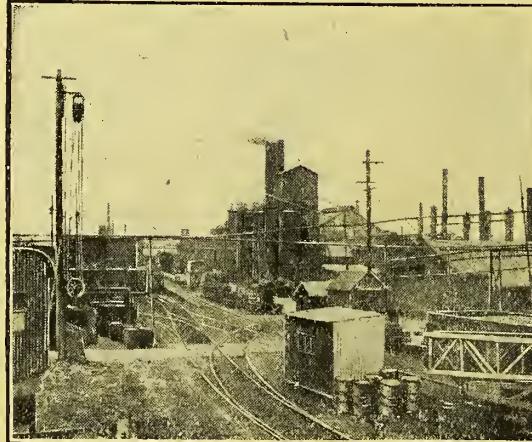
High Co-efficient
FLUIDS

up to 18—20
Rideal-Walker
Method.

LYSOL

SHEEP DIP

Approved by the
Board of Agriculture
for Sheep
Scab.



Coal Tar and Ammonia Products

Benzols, Toluol, Solvent Naphthas. Carbolic and Cresylic Acids. Creosote and Fuel Oils, Fitch, etc. etc. Timber for Dock and Harbour work. Deals, Battens, Boards, Floorings, etc. Railway Sleepers and Crossing Timbers, Telegraph Poles, etc. etc. Saw Millers and Timber Preservers.

Burt, Boulton & Haywood, Ltd. Salisbury House, London Wall, E.C. 2

Telegrams: "Burboul, Ave, London." Cables: "Burboul London." Codes: A B C (5th Edit.); Lieber's; Western Union; Bentley's.

CARBOLIC
POWDERS

CREOSOTE
POWDERS

CO-EFFICIENT
POWDERS

PINE OIL
POWDERS

PINE OIL
FLUIDS

PINE OIL
BLOCKS

NAPHTHALENE
BALLS

„ CANDLES

„ TABLETS

„ FLAKE

„ BLOCKS

„ POWDER

LIQUID SANI-
TARY SOAP

WOOD PRE-
SERVATIVE,
Etc. Etc.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9d. post free; *Diary*, 5s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd." *Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., francs.* *Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., francos.*

Terms for Advertising may be obtained on application to the Publisher
HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.
Telegrams "Chemicus, Cannon, London," Telephone: Central 3617 (three lines).
BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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New Books.

Bourguet, J., M.D. *Mis-shapen Noses and their Surgical Correction without Cicatrix.* 9 $\frac{1}{2}$ in. x 6 in. Pp. 72. 3s., paper cover. (Baillière, Tindall & Cox, Henrietta Street, Covent Garden, London, W.C.2.) [Nasal deformities are, the author states, a source of much torture to those whose misfortune it is to exhibit them. "Projected marriages are often broken off and social positions ruined owing to this ugly feature." Dr. Bourguet deals in this book with the various kinds of unsightly noses, and then in two pages outlines the surgical operations required for their correction. Hard paraffin is employed in filling concavities.]

Fieldhouse, A. and E. E. *Income Tax Simplified, being a Practical Guide to the Preparation of the Return for Assessment and Instructions for obtaining Repayment of Tax.* Fourth edition. 7 $\frac{1}{4}$ in. x 4 $\frac{3}{4}$ in. Pp. 74. 1s. 6d., paper cover. (Simpkin, Marshall & Co. Ltd., London.) [A concise guide for business men and students, which will help them in understanding the intricacies of income-tax assessment.]

DRUGS WITH TOYS.—Recently a steamer arrived at Quebec from Germany with a cargo which included, among other things, German toys and statuettes. When several of the cases were opened they were found to contain large quantities of morphine and cocaine.

Experiences of the Great War.

Contributions to this section are invited.

XXXV.—A Gas-attack at Sea!

IN THE EARLY PART of 1917 I was one of a draft detailed for India. Devonport was our port of departure, and once aboard the *Orontes* we eventually became settled in what was to be our home for the next five weeks. At this time the submarine menace had assumed serious proportions, and many restrictions were imposed on us. Sleeping in lifebelts, for instance, wanted a good deal of getting used to. Our convoy consisted of seven troopships, which steamed out of Plymouth Sound one after another, with all lights out, escorted by destroyers. We sailed safely through the "danger zone," when the destroyers left us and we were picked up by a swift auxiliary cruiser. We were now allowed to remove our lifebelts, but had to carry them with us. A fortnight after leaving England we reached Sierra Leone, where we anchored, taking on coal and fresh water. The ship was quickly surrounded by natives in frail-looking canoes loaded with fruits and native wares. The band of the Marines, which was stationed here, came aboard one evening and provided us with music. We kept up the time-honoured custom of "crossing the line" with a well-arranged programme of sports, and a month after leaving England reached Cape Town, where we stayed two days. The people offered us a great welcome. When we reached Durban we left the *Orontes* and went into a rest-camp at Ocean Beach. The next part of our journey was on board the *Caronia*, which had been conveying troops for several months between Durban and Bombay. There were some four thousand troops and officers, Australian nursing sisters, and several well-known people on board. Ships built for tropical seas have specially ventilated bunkers to remove the explosive gases evolved by the coal on account of the extreme heat. The *Caronia*, being built for the North Atlantic run, was *minus* this special ventilation. Nevertheless, we steamed eastward with the remainder of the convoy and escort. When about eight hundred miles from the African coast the position became very serious. The gases were constantly exploding, causing injuries and burns among the stokers. So many casualties had occurred that a call for sixty volunteers was necessary. These were quickly forthcoming. Two officers of the Inland Water Transport, both ship's engineers, took charge, and they worked in shifts below. The heat was terrific. The fires still spread, and the desperate remedy of flooding the bunkers was decided upon. We dropped anchor some miles off the coast of Portuguese East Africa and waited for the remainder of the convoy to come up. The "Retreat" was sounded, and we were all paraded on the fore and after decks. We remained thus for two hours beneath a blazing sun, and when the "All clear" was sounded a huge cheer was raised. The fires had been extinguished without serious damage to the ship or injury to the men engaged in the risky operation. The sequel came when we reached India. In a special order published by the G.O.C. all the volunteers were named for "very gallant work at great risk" in keeping the stokeholds of the ship manned during this critical period.

SIDNEY R. HUGHES. (79/17.)

THE HERB INDUSTRY.—This year, states the "Daily Mail," the collection of herbs at Blakenham is being organised almost entirely for the perfume trade. It will be remembered that from 1916 to 1918 medicinal herbs were the principal subjects of cultivation and collection by the organisers of the venture. A price list is issued for the guidance of buyers.

JAVA CINCHONA.—The Government cinchona plantation at Tjinjiroean yielded a total harvest of 1,026,677 kilograms of cinchona. The total expenditure incurred in collecting, drying, and packing this amount of bark amounted to 53,187.44 florins, or an average of 0.0518 florin per kilogram. The price paid by the Bandoeng quinine factory for 1 kilogram of bark averaged 1.0591 florin, and by foreign manufacturers, 1.0598 florin.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on the March Analytical Exercise.

THE powder distributed to students on March 9 contained two parts by weight of bismuth oxy-carbonate, one part of hydrated stannic chloride, and seven parts of hydrated calcium sulphate. The calculated composition of such a mixture is :

Bi	...	...	...	15.1
Sn	...	...	...	3.4
Ca	...	...	...	16.3
CO ₃	...	...	...	2.3
Cl	...	...	...	4.0
SO ₄	...	...	...	39.1
O	...	...	...	1.2
H ₂ O	...	...	...	17.6
				100.0

The powder also contained, as impurity, a well-marked trace of sodium, but otherwise it was free from noteworthy impurities.

Samples of the powder were distributed to eighty-six students, and thirty-eight reports were sent in for examination. Detection of the hydrochloric-acid radical was mentioned in all the reports. The failures in the detection of the other constituents were :—(a) Metallic radicals : Bismuth, 2; tin, 29; calcium, 4. (b) Acid radicals : Carbonic, 22; sulphuric, 1. Twelve students failed to observe the evolution of water when the powder was heated in a dry test-tube.

Taken as a whole, this exercise was not an easy one, presenting as it did some features which are not altogether familiar to students in general.

One point which caused trouble in several cases was the possibility of obtaining, on the addition of the group reagents for the iron group, a white precipitate which did not contain aluminium or phosphates, but which really consisted of calcium sulphate. This salt, while rather sparingly soluble in water, dissolves pretty freely in moderately concentrated hydrochloric acid, but it is reprecipitated from its solution in the latter reagent on the addition of excess of ammonium hydroxide. As it was largely a matter of the concentration of the solution, whether or not precipitation occurred when excess of the last-named reagent was added, it can readily be understood why some students met with this difficulty while others did not.

The chief difficulty of the exercise, however, had to do with the presence of tin as a stannic salt, and in relatively small proportion. When hydrogen sulphide was passed into the original hydrochloric-acid solution, the dark-brown colour of the more abundant bismuth sulphide very effectually obscured the pale-yellow colour of the smaller quantity of accompanying stannic sulphide, so that no suggestion of the presence of tin was, as a rule, obtained unless a separation of the bismuth and stannic sulphides was effected. It was in connection with this separation that the greatest number of failures occurred, and the reasons for failure were varied. A few students—it is gratifying to state that their number was very small—did not attempt to make any separation, but simply proceeded as if the arsenic group were non-existent. Of those who attempted a separation, a number employed ammonium sulphide or hydrosulphide as solvent, while others used sodium hydroxide. Acidification of the sulphide or hydrosulphide filtrate with hydrochloric acid was usually, although not invariably, reported as producing a precipitate, but in numerous instances where a precipitate was obtained it was pronounced—merely on inspection and without further treatment—to consist of sulphur only, and was neglected. In several cases the hydrogen-sulphide precipitate was reported to be insoluble in ammonium sulphide or hydrosulphide solely because it did not dissolve completely, and the arsenic group was summarily

dismissed from consideration without further examination being made to ascertain whether or not the solvent had taken up any of the group sulphides. Where sodium hydroxide was employed as solvent the hydrogen-sulphide precipitate was very commonly boiled with this reagent. This is not advisable; simple digestion, either in the cold or at a very slightly elevated temperature, is more appropriate. Numerous students reported that acidification of the sodium-hydroxide filtrate with hydrochloric acid did not yield any precipitate—a result which may have been due to the boiling just referred to. In our own analysis we found that a few minutes' digestion of the hydrogen-sulphide precipitate with a small quantity of cold 5 per cent. solution of sodium hydroxide and filtration yielded a filtrate which afforded, on acidification, a fairly abundant precipitate of stannic sulphide, dull yellow in colour. The statistics regarding the detection of tin are interesting. Of the nine students who reported tin as a constituent of the powder, three did not mention whether they supposed it to be stannous or stannic; four concluded, for various reasons, that it was stannous; while only two reported it as stannic and gave sufficient and satisfactory evidence in support of their conclusion.

The inaccuracy of definitely describing a powder as insoluble in water because it does not dissolve entirely may again be impressed upon a considerable number of our correspondents as representing a mental attitude which, in respect to much more important matters, often gives rise to serious oversight.

PRIZES.

The first prize for the best analysis has been awarded to

R. LOWTHER, 133 Bennetts Lane, Bolton.

The second prize has been awarded to
ELSIE STANDISH, 38 Union Street, Leigh, Lancashire.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSIS.

1. Correspondents who are unqualified:

R. Lowther (1st prize)	95	T. E. P. . . . .	...	...	73
E. Standish (2nd prize)	93	Petro . . . . .	...	...	72
Bruggles	92	Leptandrin . . . . .	...	...	71
Mytosis	90	A. Z. . . . .	...	...	70
Nitrosyl	90	Napellus . . . . .	...	...	68
Ferrum	86	N. B. P. B. . . . .	...	...	67
Gee-Gee	84	Pussyfoot . . . . .	...	...	67
Deva	82	(x+y) ² . . . . .	...	...	67
Hirudo	82	Quaker . . . . .	...	...	65
Pedestrian	82	H ₂ O . . . . .	...	...	64
Benzaldehyde	81	Pinus Sylvestris . . . . .	...	...	64
Limonene	80	Treblig . . . . .	...	...	64
Secundus	79	Scout . . . . .	...	...	59
Canary	78	Man Friday . . . . .	...	...	54
Eager	75	Physostigma . . . . .	...	...	53
M. B.	75	J. C. S. . . . .	...	...	50
Ashes	73	G. E. S. B. . . . .	...	...	48
Pelman	73	A. M. M.	47

2. Correspondents who are qualified:

Amateur	82	Prospector	83
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TO CORRESPONDENTS.

BRUGGLES.—It is most likely that the iron which you found was introduced in the course of the analysis—probably in impure hydrochloric acid. It is unsafe to rely exclusively upon the flame test for potassium, especially when applied to the original substance and in the known presence of a barium-group metal.

MYTOSIS.—It is unfortunate that you did not apply to the original hydrochloric-acid solution a characteristic test to distinguish between stannic and stannous salt. In the solution to which you applied the test that led you

to an incorrect conclusion tin could only be present as stannic salt, whatever its condition might have been in the original powder.

NITROSYL.—Your otherwise exceedingly accurate report has failed to attain first place solely through your overlooking the slight evolution of carbon dioxide when the powder was treated with dilute hydrochloric acid.

GEE-GEE.—The two reactions indicating a trace of a nitrate suggest nitrogen oxides as impurities in the concentrated sulphuric acid used in both tests. Try a blank test with the acid alone. Read the general remarks regarding the tin.

DEVA, PEDESTRIAN, AND OTHERS.—The precipitate obtained on acidifying with hydrochloric acid the ammonium-hydrosulphide extract from the hydrogen-sulphide precipitate contained stannic sulphide, as well as sulphur.

HIRUDO.—Note that a reddish-brown vapour produced on heating a substance with potassium bichromate and sulphuric acid may be due to chromyl chloride, or to bromine, or to a mixture of both, and that it is not distinctive for a chloride without further examination. See also the reply to "Gee-Gee."

BENZALDEHYDE.—You seem to have entirely overlooked, or to have ignored, the possible presence of a metal of the arsenic group. In your summary of constituents found you include oxycarbonate, but your report does not contain any evidence in support of this. The absence of a bromide should have been proved.

LIMONENE.—Solubility of a substance in hydrochloric acid is not a proof of the absence of lead, since lead chloride is distinctly soluble in water, and slightly so in dilute hydrochloric acid. At the stage at which you applied mercuric chloride as a test for tin (stannous), the latter could only be present as a stannic compound. Your mode of preparing a solution to be tested for acid radicals is altogether wrong. After boiling the powder with water and sodium carbonate and filtering, it is the filtrate which is to be examined for acid radicals, not the nitric-acid solution of the washed residue. That you found certain acid radicals, which were actually present in the powder during the examination of the solution of this residue, would indicate that the washing of the latter was of a perfunctory nature.

SECUNDUS.—Note that the complete solubility of a substance in hot concentrated sulphuric acid is by no means a proof of the absence of barium and strontium. On trying the experiment you may probably be surprised to observe how readily small quantities of barium sulphate dissolve in the hot acid.

EAGER.—You omitted to prove the absence of lead, copper, and cadmium. The formation by silver nitrate, in a neutral solution, of a white precipitate, soluble in ammonia, is not characteristic of chloride. Try if you can recall any white silver salt which is not soluble in ammonia. Insolubility in nitric acid is more nearly, although not quite, characteristic.

M. B.—It is unfortunate that you neglected, as probably due to sulphur only, the precipitate you obtained for the arsenic group, since it contained stannic sulphide. The precipitate which you got in the zinc group was perhaps bismuth sulphide, due to incomplete precipitation of the bismuth by hydrogen sulphide in acid solution.

T. E. P.—Read the latter part of the reply to "Eager."

PETRO.—In testing for a chromate in the sodium-carbonate extract by means of lead acetate you report "no precipitate," but, unless there was something far astray with your solutions, there should have been a white precipitate of lead sulphate.

LEPTANDRIN.—The precipitate which you supposed to consist of calcium oxalate was, no doubt, calcium sulphate. Discharge of the colour of potassium permanganate by the original powder in presence of sulphuric acid, which you report, did not occur in our experiments.

A. Z.—Your examination of the copper-group precipitate did not prove the absence of lead.

NAPELLUS.—The precipitate which led you to conclude that magnesium was present was almost certainly due to calcium, incompletely precipitated in the barium group.

N. B. P. B.—The precipitate which you obtained in the iron group may have consisted of calcium sulphate, or of

bismuth hydroxide, or of both, but neither of these substances could afford the convincing reactions for aluminium which you report. Read also the reply to "Hirudo."

Pussyfoot.—We regret our inability to explain—but at the same time we state our inability to obtain—the contradictory reactions relative to arsenic which you report. We failed to get any precipitate remotely resembling silver arsenate by the method you describe. We failed to obtain any evidence of arsenic by Marsh's test. We found the hydrogen-sulphide precipitate to be partly dissolved by sodium hydroxide. Read also the reply to "Hirudo."

(x+y)².—The fact that ammonium chloride and excess of ammonium hydroxide, added as group reagents, failed to produce any precipitate, should have indicated to you that calcium and the phosphoric-acid radical could not both be present to any appreciable extent.

QUAKER.—With evidence of the presence of tin actually before you, it was unfortunate that you ascribed the reaction to traces of arsenic or of sulphur.

H₂O.—Equations are wholly out of place in a report on qualitative analysis, and many of the formulae you give are highly inaccurate. The supposed precipitate of calcium oxalate was simply calcium sulphate.

PINUS SYLVESTRIS.—It is probable that incomplete precipitation of bismuth as sulphide was the cause of errors which arose in subsequent groups. This, however, does not explain why you failed to find any metal of the barium group in the ammonium-carbonate precipitate.

SCOUT.—The general remarks and the matters dealt with in various preceding replies will explain a number of the errors in your report. Do not omit to give a summary of constituents found in any future analysis.

MAN FRIDAY.—Make an experimental study of the resemblances and differences in the reactions of lead and bismuth. At present you require extended practice with less difficult analyses than those of the tournament series.

PHYSOSTIGMA.—Having found tin, you concluded that it was present in the powder as stannous salt because the original hydrogen-sulphide precipitate was brown, but a simple test applied to the solution of the powder in hydrochloric acid would have demonstrated the inaccuracy of that conclusion.

J. C. S.—The darkening of the powder in the air of the laboratory was due to the presence of hydrogen sulphide there.

G. E. S. B. AND A. M. M.—Study the general remarks and the other replies above.

AMATEUR.—Read the first sentence of the reply to "Mytosis."

THE ANALYTICAL TOURNAMENT.

Inclusion of the results in the present analysis has altered the relative positions of several of the competitors who have submitted reports upon the five exercises to date, and has revealed a position of considerable interest among those nearest the top of the list. We look forward to a close finish in a spirited competition. The following have attained aggregates of over 400 marks :

Bruggles	...	...	454	| Nitrosyl	...	...	416
Ferrum	...	...	452	| Mytosis	...	...	410
Gee-Gee	...	...	440	| Prospector	...	...	403
Hirudo	...	...	433	| Amateur	...	...	402

Bankruptcy Report.

Re Arthur Edwin Ogden, 58 Dalton Road, Barrow-in-Furness, drug-store proprietor.—This debtor attended at the Magistrates' Court, Barrow-in-Furness, last week, for his public examination. His statement of affairs showed gross liabilities of £520*l.*, and the deficiency amounted to £15*l.* 14*s.* 5*d.* Debtor stated that he had resided in Barrow over six years, and he and his late wife carried on business under the name of "Madame Mellor." He did very well for a time, then he got into the hands of moneylenders. He attributed his failure to his wife's illness, bad trade, and high rate of interest on borrowed money.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

London Chemists' Retail Price List.

The following are among the alterations in the current issue of the London Chemists' Retail Price List : Drugs.—Acid. citric., 11d. oz.; acid. tannic., 3d. dr.; camph. flor., 2s. 11d. oz.; glyc. pepsin., 1s. oz.; iodoform., 7d. dr.; liq. formaldehydi., 7d. oz.; menthol, 1s. 8d. dr.; methyl salicyl., 1s. 5d. oz.; potas. permangan., 1s. 1d. oz.; syrup. aurant., 6d. oz.; thymol, 1s. 3d. dr.; tinct. senegae, 1s. 3d. oz.; vin. ipecac., 9d. oz. Packed Goods.—Bay rhum (industrial), 3-oz. bot., 1s. 3d.; caps. amm. quin. (m 30), 24, 1s. 3d.; caps. casc. sag. (m 30), 24, 1s. 3d.; fld. ext. casc. sag., 2-oz. bot., 1s. 4d.; Easton's syrup, 2-oz. bot., 1s. 5d.; glycerin, 3-oz. bot., 1s. 6d.; tabs. hexamine, 25, 1s.; tabs. sod. cit. (gr. 2), 25, 9d.; water-glass, 8d. lb. We are asked to point out that the price of Pears' opaque shaving-stick should be 1s. 3d.

Guardians' Affairs.

The following tenders have been accepted by the boards of guardians named :

Hexham.—Low & Hare, chemists, drugs, etc.

Lewes.—Boots, Ltd., drugs.

Ludlow.—G. Woodhouse & Son, chemists, bovril, emulsions, etc.

Merthyr Tydfil.—Mr. V. A. Wills, chemist and druggist, drugs, etc.

Milton Regis.—Usher's Drug Stores, Ltd., Sittingbourne, drugs, etc.

Newport (Shropshire).—Mr. C. R. Picken, chemist and druggist, drugs.

Stafford.—J. & H. A. Averill, chemists, drugs and appliances.

St. Pancras.—Thomas Hodgkinson, Prestons & King, drugs; Sangers, proprietary articles and surgical dressings; S. Maw, Son & Sons, Ltd., opties, surgical instruments, etc.; J. G. Ingram & Sons, Ltd., indiarubber water beds and sheeting.

At a recent meeting of the Blackburn Guardians, an application was received from Mr. J. Holden, chemist and druggist, their dispenser, for an increase of salary from 120*l.* a year to at least 2s. 6*d.* an hour for a 32-hour week. Mr. Holden enclosed a cutting from a trade paper on the subject of dispensers' remuneration. The matter was referred to the finance committee.

Birmingham.

Whooping-cough is prevalent in the city.

The British Non-Ferrous Metals Research Association will have its headquarters in Birmingham.

Retailers closed on Good Friday and Easter Monday only. Wholesalers were more fortunate.

The employés of Southall Bros. & Barclay, Ltd., have subscribed 4*f.* 3*s.* 6*d.* to the local branch of the Dumb Friends League.

It is rumoured that the formation of a glass-combine embracing seven firms well known in the Midlands will take place shortly. Mass-production is stated to be the object in view.

In a local directory for the year 1770 there appears an entry, "Sanders, Ann, druggist," followed by "Sanders, John, ditto, and surgeon." Apparently the druggist took precedence of the surgeon then.

A man named Jenkins was charged at Birmingham Police Court, on March 31, with putting poison in his wife's tea. The tea had been tested by a local chemist and found to contain salt of lemon. Jenkins was remanded.

The General Hospital requires a male unqualified assistant to give general help in the dispensary. Preference is to be given to a candidate ultimately wishing to become qualified, and assistance will be given in that direction. The salary (to commence) is 100*l.* per annum.

In the course of a racy paper delivered at a recent meeting of the local section of the Society of Chemical Industry, Colonel J. G. Wright, a Toronto analyst, prophesised that in the near future we shall purchase our milk supply by the pound, instead of having it delivered "wet." At the same meeting Dr. Slater showed a new apparatus for determining the amount of carbon dioxide in carbonates.

Liverpool.

Such an epidemic of colds as now prevails is rare.

Mr. Thomas Drawbridge, chemist and druggist, Windsor Street, who was in business before August 1, 1868, has sold his pharmacy to "Heaths."

The Liverpool Amateur Photographic Association, which has 300 members, has on exhibition over eighty "gems of the camera," selected by the Royal Photographic Society in London.

Retailers complain that Easter business has been "nothing like last year's." The curtailment of shop hours, in which no elasticity is allowed to meet the emergency needs of a great port, adds to the difficulties of lock-up businesses in the heart of the city.

Mr. E. S. Taylor, Ph.C., Egremont, Wallasey, has disposed of his business to Mr. Hope Stone, chemist and druggist (who was with Clay & Abraham, Liverpool, before the war), and is retiring. Mr. Taylor qualified in 1883, and passed the "Major" in the same year. He is widely esteemed, both as a pharmacist and as a Free-mason.

Mr. J. Charles Jackson (formerly of Henry Jackson & Son, druggists' sundriesmen, Brook's Alley), who relinquished business, has recovered his health. Mr. Jackson, who has not forgotten his old ties with pharmacy, remains a member of the Liverpool Chemists' Association. He is acting as treasurer of the Wallasey branch of the Middle-Class Union.

Sheffield.

A discussion took place, at a recent sitting of the Sheffield licensing magistrates, between the chairman and a solicitor on the power of conditioning an off-licence by a promise to sell medicated wines and no others. The following is the essential part of the dialogue : "I submit you have no power to restrict this licence to the sale of medicated wines if it is granted." "Oh, yes we can, and if the licence is broken the applicant must take the consequences at the next Licensing Sessions."

Miscellaneous.

LONDON VAN HORSE PARADE.—Among the prize-winners at the London Van Horse Society's Easter Monday Parade—restored this year to its accustomed pomp and circumstance—were Burroughs Wellcome & Co., Snow Hill, E.C., who won a first prize.

Poisoning.—At Southwark, London, S.E., on April 3, an inquest was held on the body of a man named White, whose death was stated by Dr. Bernard Spilsbury to be due to syncope from pneumonia, following hydrochloric-acid poisoning. The evidence pointed to foul play; and the coroner, in adjourning the inquest, said that one heard of eases of doping.

SALE OF FOOD AND DRUGS ACTS.—The analyst's report read at the meeting of the Essex County Council on April 6 stated that twenty out of thirty-six samples of borax examined showed objectionably large contamination with arsenic as compared with the limit laid down in the British Pharmacopœia. One of the samples was indicated as "commercial" borax.

Poison-Licence Refused.—At Blackburn, on April 1, the town council confirmed the decision of the watch committee in refusing to grant a poison-licence to J. Walsh, seedsman, Penny Street. Councillor W. H. Grimshaw, ex-President of the North-East Lancashire-Chemists' Association, asked why the watch committee had made such a recommendation, seeing that only a short time ago the council had granted a similar privilege to a seedsman under identical circumstances (*C. & D.*, February 14, p. 50). The town clerk replied to the effect that the committee did not consider the conditions identical.

FIRE.—An outbreak of fire occurred at the premises of Suttley & Silverlock, Ltd., 92 Blackfriars Road, London, S.E. 1, on April 3. The damage (which has been exaggerated in the lay Press) was for the most part confined to staircases. A tank at the top of the building, containing thousands of gallons of water, burst while the fire was in progress, and materially assisted in putting it out. Work will be resumed normally in a few days. Further reference to the outbreak will be found in our advertisement pages.—On April 6 a fire-brigade call was sent by Charles Zimmermann & Co. (Photographic), Ltd., 13 Bartlett's Buildings, London, E.C. 4. Trouble was caused by the fracture of a carboy containing acetic acid, but no one was injured.

IN THE COURTS.—In the City of London Court, on March 30, James Brady, carman, sued the Sheppeney Glue & Chemical Works, Ltd., 34 Mark Lane, E.C., for 3*l.*, a week's wages in lieu of notice. Plaintiff said he was paid his wages on Friday, February 6. On Monday, February 9, he received a notice to leave at the end of the week. He contended he had not had a proper or full week's notice. The defendants' manager said that the plaintiff did not return from his work on the Saturday, with the result that they could not give him notice until the Monday. Assistant Judge Jackson found for the plaintiff, with costs.—At Guildhall Police Court, London, on April 1, W. H. Reddish was bound over on a charge of stealing spirit of wine, value 2*l.* 15*s.*, the property of his employers, Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C. It was mentioned in court that the accused would not be reinstated.—At Woking, recently, J. Mercer, errand-boy, was ordered to pay 10*s.* costs, and was placed on probation, on a charge of stealing medicine and other goods, value 8*s.* 6*d.*, the property of his employer, Mr. S. B. Moss, chemist and druggist, West Byfleet. It appeared that the articles had been sent out for delivery from Mr. Moss's shop, but did not reach their destination.—At Westminster Police Court, recently, S. R. Cartill, trading as Singleton's Eye Ointment, 210 Lambeth Road, S.E. 1, was fined 5*l.*, with 4*l.* 4*s.* costs, for selling a poison (red precipitate) without complying with the provisions of the Pharmacy Act, 1868, Section XVII.

Irish News.

Brevities.

Mr. Edward McManus, Ph.C., has taken over the pharmacy of Mr. W. S. Taylor, Lisnaskea, co. Fermanagh.

Mr. W. F. Wells, Ph.C., has been elected a member of the committee of management of the city of Dublin and Pembroke Unionist Association.

Mr. J. W. Harvey, Ph.C., 31 Great George's Street, Cork, has transferred his business to Messrs. V. O'Sullivan and J. P. Daly, Ph.C., who were previously his assistants.

The Local Government Board has intimated to the Kilrush Board of Guardians that they consider 2*l.* 1*s.* 6*d.* an unusually high price for a belt for umbilical hernia for a patient in the workhouse infirmary, and adds that the usual price is 30*s.*

At Armagh Petty Sessions, recently, when Joseph Armstrong was charged with being drunk and disorderly as a result of drinking methylated spirit, the chief constable said druggists had no right to sell methylated spirit to low characters. There were some druggists' shops in Armagh where these people would be refused, but in others they would be supplied wholesale. Defendant was fined 20*s.* and costs.

On the application of Mr. A. W. Mann, Ph.C., Lurgan, member of the British Red Cross Society and St. John Ambulance Association, and also of the County Armagh Finance Committee, which is assisting the county director in the disbursement of the surplus Red Cross War Funds, 50*l.* has been granted to Lurgan Sick Nursing Society. Mr. Mann has also secured several hundred pounds which

will be used for financing a scheme for the installation of x-ray apparatus and other accessories in Lurgan Infirmary.

Belfast.

Mr. J. McCormac (Elliott, Thompson & Blair, wholesale druggists, Corporation Street, Belfast) has been appointed a member of the Committee of the Belfast Wholesale Merchants' Association.

At a committee-meeting of the Ulster Retail Drug-trade Association held in Belfast on March 29, the President (Mr. Samuel Suffern) in the chair, it was unanimously decided to appoint Mr. W. J. Stevenson, Ph.C., Ashley Avenue, as secretary of the Association. This appointment is subject to confirmation at the forthcoming general meeting.

Drugs and Surgical Appliances Contracts.

The following additional contracts for the supply of medicines and surgical appliances have been declared (*C. & D.*, April 3, p. 68):

Union	Medicines	Surgical Appliances
Ardee	Sumner & Co., Ltd., 17½%	Clarke & Co., Ltd.
Ballena	Boileau & Boyd, Ltd., 10½%	Clarke & Co., Ltd., 13½%
Baltinglass	Sumner & Co., Ltd., 17½%	Boileau & Boyd, Ltd., 12½%
Boyle	Boileau & Boyd, Ltd., 12½%	Boileau & Boyd, Ltd., 12½%
Carrick-on-Suir	Boileau & Boyd, Ltd., 12½%	Sumner & Co., Ltd., 17½%
Celbridge	Fine Chemicals, Ltd., 12½%	Boileau & Boyd, Ltd., 12½%
Clonmel	Boileau & Boyd, Ltd., 18½%	Boileau & Boyd, Ltd., 13%
Cookstown	Fred Storey & Co., 15%	Clarke & Co., Ltd., 13½%
Edenderry	Fine Chemicals, Ltd., 15%	Boileau & Boyd, Ltd., 12½%
Ennis	Boileau & Boyd, Ltd., 12½%	Boileau & Boyd, Ltd., 12½%
Kells	Boileau & Boyd, Ltd., 15%	Boileau & Boyd, Ltd., 12½%
Kildare Co. Infirmary	Boileau & Boyd, Ltd., 10%	Boileau & Boyd, Ltd., 12½%
Killarney	Boileau & Boyd, Ltd., 18½%	Boileau & Boyd, Ltd., 12½%
Longford	Boileau & Boyd, Ltd.	Boileau & Boyd, Ltd., 12½%
Newry	Boileau & Boyd, Ltd., 23%	Clarke & Co., Ltd., 13%

When the Athy Guardians decided to accept the tender of Boileau & Boyd, Ltd., for medicines, at 15 per cent. discount off list prices, a member of the Board pointed out that the tender of Sumner & Co., Ltd., Liverpool, allowed 17½ per cent. abatement. He proposed that the tender of Sumner & Co. be accepted. There was no seconder for this motion, and the contract was awarded to the Dublin firm, on the motion of another member, who said that when the Liverpool firm had the contract the greatest inconvenience was caused as a result. At Navan Board of Guardians Mr. Owens protested against giving the contract to Sumner & Co., Ltd., on the ground that it ought to be given to an Irish firm. Several guardians said they did not want to be surcharged, and the clerk pointed out the difference between the tender of Messrs. Sumner and the next lowest tender was 5 per cent., which would amount to 150*l.* At the Oldcastle Board of Guardians, where the tender of Sumner & Co. was more favourable, by 5½ per cent., Mr. Caffrey said they ought to accept the tender of an Irish firm. The tender of Sumner & Co., Ltd., was afterwards accepted. The tender of John Clarke & Co., Ltd., for the supply of medicines to the Ballinrobe Guardians was the lowest, but the guardians refused to accept it, some of them alleging that they had unpleasantness with the contractor last year.

Scottish News.

Brevities.

Mr. Charles Pickles, chemist and druggist, has purchased the business of Mr. Spence, Dalry. Mr. Spence has been in business at Dalry for twenty-four years.

Major George Hicks, M.C. (G. Hicks & Son, chemists, Rothesay), has been appointed an honorary sheriff-substitute for Bute. Major Hicks served in Gallipoli and Salonica during the war, and was awarded the Military Cross.

Edinburgh.

The Spring Holiday falls this year on April 19.

It is intended to invite the International Association of Rotary Clubs to hold its convention here in 1921. A proposal has been made to charter a ship for the American delegates, so that they could solve the problem of hotel accommodation by living on board.

French News.

(From the "C. & D." Paris Correspondent.)

M. LANGLAIS, pharmacist, rue Louis-Philippe, Paris, holds (with the possible exception of M. Jammies) the record number of "citations"—seven in all. Volunteering for active service as lieutenant on August 2, 1914, he returned as a major, with the Legion of Honour and the British Military Cross. He was at Verdun in 1916, and on the Piave he took the first Austrian prisoners.

M. GEORGES CLAUDE invited members of the Academy of Sciences to his Montereau laboratory to inspect his new process of synthesising ammonia. M. Claude combines hydrogen with atmospheric nitrogen in the presence of a catalytic medium at a pressure of a thousand atmospheres. The liquid ammonia can be seen running down the sides of the receptacle. MM. Berthelot and Matignon consider M. Claude's catalytic tubes twenty times more effectual than the Oppau (German) process.

DIPHTHERIA ANTITOXIC and other serums for hospitals and free dispensaries have for long been supplied without charge by the Institut Pasteur to the provincial prefectures. It has now been decided that serum will only be given gratuitously by the institute to hospital services, and the rest must come through pharmacists. The sale price is limited to 4 frs. per 10 c.c. for all serums. The institute will supply pharmacists at 3 frs. (2 frs. 75c. to those who stock), packing and carriage extra.

PHARMACISTS' SUGAR SUPPLY.—The proposal to stop the allowance of sugar regularly made to pharmacists since rationing began has been strongly criticised as likely to raise the price of medicaments. The new Under-Secretary of the Food Ministry has taken these objections into consideration, and a circular was sent to the prefects instructing them to continue the existing system till the end of March. After that date pharmacists have to buy sugar required for professional use at market prices.

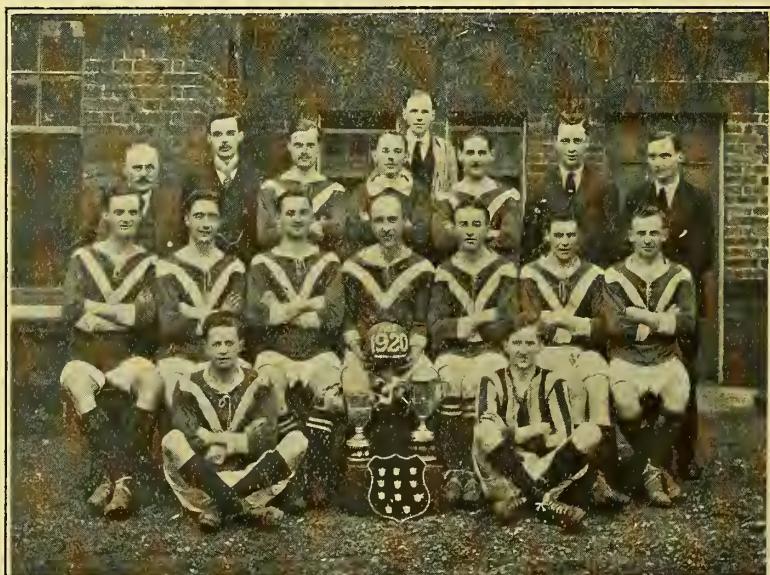
M. MULLER has been nominated professor of general and physical chemistry at the Strasburg Faculty of Sciences, and M. Hackspill professor of inorganic chemistry. Both these gentlemen were formerly at the Nancy Faculty of Sciences. At the Strasburg Faculty of Medicine

M. Nicloux has been appointed to the chair of physiological chemistry, and M. Ambard to that of pharmacology; both belonged to the Paris Faculty of Medicine. M. Borrel (Pasteur Institute) takes the chair of hygiene and bacteriology.

AT A RECENT PHARMACEUTICAL GATHERING one of the principal speakers said that the profession in France had lost nothing of its ancient status. He mentioned, in support of his statement, the fact that M. Guignard (the 1919 President of the Academy of Sciences), M. Lacroix ("perpetual secretary" of the same distinguished body and President of the International Scientific Research Council recently founded at Brussels), and M. Moureu (President of the Inter-Allied Conference of Chemistry in London in July 1919) were all pharmacists.

WATER-GAS.—The French Board of Health and the Paris Municipal Council have authorised the gas company to mix 10 per cent. of water-gas with the gas used for lighting and cooking purposes. Professor Haller, of the Sorbonne (Director of the School of Chemistry and Physical Science) considers the proposal dangerous. He explained at the recent meeting of the Academy of Sciences that he had specially studied the matter in collaboration with M. Kling (director of the Municipal Laboratory) and M. Florentin. The dangers of carbon monoxide, of which water-gas contains a considerable proportion, are too serious to be ignored.

THE BIOGRAPHY OF QUINQUET.—In the concluding chapter of a biography of Quinet, which has just been published, the author (Dr. Dorveaux) relates some melancholy facts on the declining years of this well-known pharmacist. He was elected representative of the Commune of Paris for the district of St. Jacques-de-la-Boucherie, but retired from office when the Reign of Terror commenced. In 1793 he was mobilised as a pharmacist and attached to the "National Hospice," where his salary was 3,000 livres per annum. There was a fuel famine during the winter of 1794-5, and Quinet introduced a lamp-stove for cooking purposes. He was also one of the pioneers of "daylight saving." But his health and finances were in a low state. He had to sell his physical-science apparatus in 1796. In 1797 he was present at the "Free Society of Paris Pharmacists," and again in 1800 and 1802. This is the last recorded glimpse of Quinet, who was by this time worn out and ruined by the Revolution. The exact date of his death is unknown, but it is supposed to have occurred in 1803, when he was fifty-eight.



THE LONDON COLLEGE FOOTBALL TEAM.
The winning team in the Inter-Pharmacy Football League, 1919-20.

Legal Reports.

Borax in Sodium Bicarbonate.—At Lambeth Police Court, London, on March 31, Harry Parkins, grocer, Knight's Hill, S.E. 27, was summoned, under the Sale of Food and Drugs Act, for selling sodium bicarbonate containing 100 parts of arsenic per million. Sir Archibald Bodkin, K.C., appeared for the defence, and, in formally pleading guilty, stated that he had made an explanation to counsel for the prosecution, and that the explanation had been accepted. When the case came before the Court in February he (Sir Archibald) asked that a sample taken by the inspector should be sent to the Government analyst. This was done, and his certificate showed that there were 80 parts of arsenic per million. The third sample taken by the inspector was analysed by Mr. A. C. Chapman, F.I.C., and was found to contain 20 parts per million. The bicarbonate had been bought originally from Brunner, Mond & Co., Ltd., who had a very considerable reputation and made the most exacting tests. He was in a position to prove that it was absolutely pure when sold, and that no bicarbonate had left their premises containing a greater trace of arsenic than 0.6 part per million. The British Pharmacopœia recognised that bicarbonate of soda might contain two parts of arsenic per million. In the sample analysed by Mr. Chapman the presence of borax was discovered. A communication was then sent to the Government analysts, and they now stated that they, too, had found a percentage of borax in their part of the purchased article. A similar communication was made to the Lambeth authority, and Mr. A. H. M. Muter, F.I.C., the public analyst for the borough, also found borax in the part that he had had. Mr. Chapman analysed some of this borax, and found that it contained from 110 to 120 parts of arsenic per million. On examination of the drawer at the defendant's shop from which the powder was taken, this powder was found to be a mixture of bicarbonate of soda and borax, and the borax contained the same percentage of arsenic as that previously analysed. Ten samples were taken from the bottom of the drawer, which contained nothing but bicarbonate of soda, and Mr. Chapman's analysis showed that they contained 0.8 part of arsenic per million. There was no British Pharmacopœia standard for commercial borax. It was quite evident that the adulteration was the result of an accident. Sir Archibald produced three slides showing arsenic in the samples. Mr. A. C. Chapman gave evidence as to his analysis. In reply to the magistrate, he said he was not sure how many parts of arsenic per million would be dangerous, but he believed the medicinal dose was $\frac{1}{10}$ gr. to $\frac{1}{5}$ gr. The Magistrate: You have less than a dose in the whole $\frac{1}{2}$ lb. of bicarbonate?—No, about three doses. The magistrate imposed a nominal penalty of 2*l.*, with 10*s.* costs.

Action for Libel.—In the King's Bench Division, Dublin, before Mr. Justice Dodd, on March 31, an application was made in which the plaintiff was Dr. William John McElhinney, Ph.C., 69 Morehampton Road, Donnybrook, co. Dublin, and the defendant is Mr. James Quinn, B.A., described in the writ as a "grinder," 44 Grove Park, Rathmines, Dublin. The plaintiff is a licentiate of the Royal College of Physicians and the Royal College of Surgeons, Ireland, as well as a licentiate of the Pharmaceutical Society of Ireland. His claim is for damages for libel and for an injunction restraining the defendant from repeating the libel. Damages are laid at 1,000*l.*

Mr. T. M. Healy, K.C., and Mr. Hubert C. Hamilton (instructed by Mr. A. Lane Joynt) appeared for the plaintiff. The defendant was not professionally represented, but appeared in person.

Mr. Healy, on behalf of the plaintiff, applied for an order striking out the defence on the ground of the refusal of the defendant to comply with an order of the Court directing him to make discovery of documents. Counsel said the libel was of a very cruel kind. The defendant was a grinder, apparently, of law students, and a man of some ability, and he proceeded to circulate, according

to his own statement, something like eighty letters to the neighbours of the plaintiff, to his customers, to those who supplied him with goods, and to the doctors of the city. The letters, of which some half a dozen were set out in the statement of claim, were of this kind [reads]:

44 Grove Park, Rathmines, November 29, 1919.

DEAR SIR,—In September 1906 W. J. McElhinney, of 69 Morehampton Road, procured a man to personate him at the Matriculation Examination of the Royal University, so that there is a flaw in both his diplomas. In addition to this, for some time past he has been swindling on a fairly extensive scale.

Please direct your patients not to patronise him in any way. I am, dear Sir,

Yours faithfully,

JAMES QUINN (B.A.).

That letter was written to Mr. Mather Thompson. On the same day he sent similar letters to Mr. Wm. Taylor, M.D., and to Mr. Wm. Doolin, M.B., and on October 30, 1919, he sent a similar letter to Mr. Dominick Dolan, chemist, with this addition:

Please persuade him if possible to go off to the United States. There his diplomas will be in order. (Laughter.)

On August 13, 1919, he sent a similar letter to a Mrs. Bowers, with the addition: "This matter is now being investigated." On August 5, 1919, he wrote to the secretary of Evans Sons Lescher & Webb, Ltd., wholesale chemists, Liverpool:

Please be careful about sending goods to W. J. McElhinney, of 69 Morehampton Road, Donnybrook, Dublin. I have directed the doctors not to patronise him until the swindle has been investigated.

On July 5, 1919, he wrote to the secretary of the same company:

In November 1913 I assisted W. J. McElhinney, of 69 Morehampton Road, Donnybrook, Dublin, to open a chemist's shop. Will you please let me know the amount of the debt still remaining unpaid, and also whether I am a surety or merely a witness? The shop was open for business on March 6, 1914, and on June 14, 1914, I discovered that W. J. McElhinney had procured a man to personate him at the Matriculation Examination of the Royal University of Ireland, so that there is a flaw in his diplomas (chemical and medical). This matter has now become widely known, and will probably be the subject of an inquiry. It is probable that McElhinney may run away. So please be careful about giving out goods for some time. There might be a boycott of the shop, and the goods might remain unsold. I may bring an application in the High Court of Justice, Dublin, to have the shop put under a proper system of government. Could you tell me what attitude your firm would take up if I were to do so? I used to meet Mr. Grimes in Dublin, but have not met him for a long time. Perhaps you could kindly give me his address. Please hold fast to all documents for the present.

The defence put in by the defendant was one of justification. It was:

All statements made by me, whether oral or written, regarding William John McElhinney are true in substance and in fact. The written statements do not constitute a libel in the legal sense, as the element of malice is wanting. In rendering effective the agreement attached hereto I intend to have recourse to any honourable means consonant with our present standard of civilisation.

The defendant would not have a solicitor. He knew something of the law himself, and his letters were akin to those of a man who was slightly disordered in intellect. The plaintiff got an order from the Court to find out to whom the defendant had been sending these documents, as he himself stated that he had sent out about eighty of them, and the present application to strike out the defence was on the ground of the refusal of the defendant to comply with that order. A letter was sent to defendant pointing out the defect in his affidavit, and stating that if within a certain time he did not make a proper affidavit of documents application would be made to the Court to have his defence struck out. The only reply was a very long letter stating that he was tired of their threats, that he had gone to the officers of the Court, and that the officers of the Court had assured him that his affidavit was in perfect order.

The defendant said he would like to read out his affidavit

first, and he would make a statement afterwards. He read his affidavit, which contained the following:

On February 23, 1920, I filed an affidavit stating all the documents over which I exercise any control. On that date I wrote to plaintiff's solicitor making an immediate offer of every document that could in any way bear upon the present action. On March 1, 1920, I delivered a copy of above affidavit to plaintiff's solicitor. Again I offered him everything I possess—either a copy or an inspection of the originals. I received no reply to above offer. On March 18, 1920, I received from plaintiff's solicitor a forty-eight hour notice requiring me to furnish a full and proper affidavit of documents. I did not understand the meaning of this notice. So at once I wrote to plaintiff's solicitor asking for particulars of what he required. On March 20 I received a reply to my inquiry. This reply (which see) left me more hopelessly in the dark than ever. I showed this letter to several persons. No one could interpret its meaning. In his affidavit of March 22, 1920, on which the present motion is grounded, plaintiff's solicitor refers to about eighty letters sent out by me to various persons. Over these letters I have now no control. I do not remember the names or addresses of the persons to whom I sent the greater number of them. However, I now certify that I made no charge in any of these letters against the plaintiff except that of personation and swindling. These two charges I can prove provided this action comes to trial. The documents used in the previous action of Quinn *v.* McElhinney are in my opinion of little value in the present action, but if plaintiff's solicitor has lost or mislaid these documents I am willing to furnish fresh copies, and have offered to do so. Finally, I am willing to obey any order of the Court with a view to giving the plaintiff's solicitor the most complete discovery in this action. I have not the slightest desire to withhold any document bearing on this case from the plaintiff's solicitor. I therefore pray that my defence be allowed to stand, and that this motion be refused, with costs.

The defendant said he supplied all the money to open the shop. The eldest member of the family got married some time ago, and he wanted to cut out the younger members. He (defendant) had lost 100*l.* up to the present moment. He wanted to stand between the younger members of the family and the eldest brother; he wished to have the case investigated in public, and he was not afraid of the result.

Mr. Justice Dodd said they could not allow a man's character to be challenged without the man knowing what it was that was said against him. The cause of action was very carefully prepared. It alleged libel published to Dr. Mather Thompson and several other persons, and damages were sought for injury to the plaintiff's character.

The defendant said if the case went forward to trial it would not matter to whom the eighty letters were sent. That was strategy on his part to try to get the plaintiff out. He could not get him out at all.

Mr. Healy : I thought it was insanity.

Mr. Justice Dodd said the law of their land was that if a man was charged he must know what he was charged with. If the plaintiff was a swindler, there must be documents connected with that which it was necessary to produce. If the plaintiff was personated, then there must be documents connected with that. The defendant must formulate a proper defence. He must justify what was complained of. He must give particulars in such a way that the man who was accused may be able to answer the charges. The defendant must have every document from the very beginning in his affidavit. Unless his order was complied with, and complied with properly, he would have the papers sent to the Attorney-General in order that a prosecution might be taken on the criminal side of the Court, where the defendant's plea of justification would not avail him unless it was shown that he had acted in the public interest. He would strike out the defence, with costs.

THINKING IN MILLIONS.—In the "Daily Mail" of April 5, the following statements are made within the compass of a few lines: "The world's present output of pure radium element is about 22 grams. . . . The price remains at about 500,000*l.* an ounce. . . . The Ministry of Health has bought 75,000,000*l.* worth of radium. . . ." The arithmetic shows marked signs of—let us say—radioactivity.

The Profiteering Act.

Complaint.

BRADFORD.—At a recent sitting of the Profiteering Committee, Taylor's Drug Co., Ltd., were the respondents in a complaint of having sold a tube of wintergreen cream for 3*s.* 6*d.* at one of their Bradford shops, a similar article having been purchased at another shop at the old price of 1*s.* 6*d.* A representative of the company admitted that 3*s.* 6*d.* had been charged, but said that it was an assistant's mistake, and that they were prepared to refund the difference. The Committee decided that the overcharge must be refunded, and that the case must go for prosecution. The representative of the company was informed that there was a right of appeal.

Prosecution.

At Willesden Police Court, on March 31, Mr. Lawrence Stuart Woolf, chemist and druggist, trading as W. M. Bell & Co., 2 Malvern Road, N.W. 6, was summoned, at the instance of the Willesden Profiteering Committee, for selling essence of peppermint at a price yielding an unreasonable profit (*C. & D.*, March 20, p. 50). Mr. R. H. Tee represented the Committee and Mr. Wallington, barrister (instructed by Neve, Beck & Kirby, solicitors, on behalf of the Chemists' Defence Association, Ltd.), defended. Evidence of purchase, having been given, Inspector Starkie said he saw the defendant, after the complaint had been made, and was told that 3*s.* per oz. was correct. Witness had since purchased essence of peppermint at 1*s.* per $\frac{1}{2}$ oz., and also at 9*d.* Cross-examined: The defendant's representative agreed that the cost of the ingredients was 1*s.* 1*\frac{1}{2}d.* per oz., but that did not include the cost of the labour. A list was shown to him, which gave the wholesale cost of the manufactured article as 1*s.* 7*\frac{1}{2}d.* per oz., but defendant said he manufactured his own. The Committee based their decision on the London Chemists' Retail Price List. The prices given in this list allowed the same rate of profit as in 1914. The prices in that list were, he contended, the maximum prices, although it was not so stated in the list. For the defence, Mr. Wallington submitted that the average rate of profit made in 1914 had not been exceeded. The prosecution not having proved that that rate had been exceeded, the case failed. Mr. Tee: Oh no. The onus is on the defence to prove that a greater rate of profit is not now being made. The magistrate upheld this contention. Mr. Wallington submitted that the purchases made at the lower prices could not be put in as evidence, because there had been no analysis and the vendors were not present. The magistrate offered to adjourn the case, but Mr. Wallington said he was not anxious for that. Mr. Woolf, giving evidence, said that the wholesale cost of essence of peppermint was 1*s.* 7*d.* per oz., and it was the custom to double the wholesale price for the retail trade; he charged 3*s.* per oz., which was not quite double. The cost of the ingredients to him worked out at 1*s.* 1*\frac{1}{2}d.* per oz. There was a certain evaporation. His rate of profit in 1914 was 100 per cent. Cross-examined: What cost him 1*s.* 1*\frac{1}{2}d.* (for ingredients only) he sold for 3*s.*, which he admitted was 166 per cent. profit. From that had to be deducted labour in manufacture and evaporation, as well as retail profit. Mr. Liston, chemist and druggist, Fulham, S.W., said that 2*s.* 6*d.* per oz. in the price-list produced was obviously a mistake, because 5*d.* was given as the price per dr., and the next month's price-list still gave 5*d.* as the price per dr. and 3*s.* as the price per oz. In his own shop he would certainly charge 1*s.* 6*d.* for $\frac{1}{2}$ oz. Mr. Lynn's assistant to Mr. Woolf, gave corroborative evidence. The chairman said that the justices were agreed that there should be a conviction, although, after hearing the case, they had come to the conclusion that it was not nearly so serious as it appeared at first. However, the public must be protected, and something beyond a reasonable profit had been made by the defendant. There would be a fine of 5*l.*, with 2*l.* 2*s.* costs.

Southall's Centenary.

AT the twenty-third ordinary general meeting of Southall Brothers & Barclay, Ltd., at Birmingham, on March 31, Sir Thomas Barclay, chairman of the directors, made some observations regarding the centenary of the foundation of the business, which occurs this year. The other directors present were Messrs. W. F. Southall, A. W. Southall, T. Barclay, W. E. Hipkiss, and E. W. Mann. The speech of the chairman, in moving the adoption of the report and balance sheet, was read by Mr. W. F. Southall. In the course of an extensive survey of the company's affairs, Sir Thomas said :

In moving the adoption of the report (*C. & D.*, March 27, p. 73) it may be recalled that the past year saw the withdrawal of practically the whole of the war-time restrictions affecting the business, but unfortunately the aftermath of the war, the world's shortage, and the wildly fluctuating rates of exchange between this and the other countries increased rather than relieved their difficulties. The outstanding feature of the past year's trading has been the enormous rise in the price of drugs of Japanese origin, and the increased scarcity of many crude drugs, especially those which originate in the U.S.A. Passing reference was made to this at last year's meeting, but since that time the situation has become even more acute. The question of price is, of course, affected to some extent by the adverse rate of exchange, but this accounts only for a very small proportion of the increase, the main factor being the paucity of the quantity available and the increased demands from Continental markets, which have so long been cut off from the sources of supply. Market manipulations may have something to do with these enormous increases in value, and no doubt it is not entirely absent from the American business methods. For instance, in the case of turpentine, 27s. per cwt. was a normal pre-war price, and in times of great scarcity it has risen to 45s. or 50s. per cwt., but to-day the company is compelled to pay nearly ten times the normal pre-war price to obtain absolutely necessary supplies. The result of market manipulation is apparent in the prices which are being demanded by Japan for articles of which she has the monopoly—*i.e.*, camphor, menthol, and Japanese oil of mint—for which this country is being charged ten, eight, and four times respectively the price ruling in normal times. Perhaps the most phenomenal rises due to the acute scarcity are those in ergot and santonin. Something like twenty times the pre-war price for ergot has been paid by the company during the past few weeks, and for santonin (in order to execute an indent for an export customer), about eighty-five times the price at which the same article was being sold a few years prior to the war has been paid. Sir Thomas then referred to the sugar situation, giving some interesting facts. Mention was also made of the increased spirit duty and its effect on spirituous preparations of a non-medicinal character. Since the last report there has been a further increase of 20s. per proof gallon, but fortunately the Chancellor followed the precedent created on the last occasion, and allowed a rebate on spirit used for medicinal preparations. This enormous advance in the duty makes a very serious increase in the price of spirituous preparations which are non-medicinal, such as flavouring essences, bay rum, eau de Cologne, and perfumes generally. The increased duty alone, apart from the actual cost of the spirit and the normal pre-war rate of duty, accounts for something like 7s. 6d. per lb. of the advance in the price of the highly spirituous preparations which are not used for medicinal purposes. With the ratification of the Peace Treaty, and the reopening of commercial relations with Germany, it may be asked what the effect of German competition will be as far as the company's business is concerned. Just prior to the recent political upheaval in that country, when the German factories were said to be settling down to serious business, the company had an opportunity of examining quotations from several German houses. Out of thirty-one articles which were offered, in twenty-six cases the prices, in spite of the favourable rate of exchange, were much in excess of those ruling in this country, and where the prices were lower the articles offered were of very minor importance, or the natural resources of the country placed the manufacturers in such a position that it was almost impossible for other countries to compete—as, for example, in the case of caustic potash. The export branch of the company has continued to make satisfactory progress, although hampered by many difficulties. It may be taken as a well-recognised fact that the export trade which in the past went to Germany is to a large extent now being diverted to this country, and it is only fair to say that the Overseas

Trade Department is doing its best to strengthen the position of British manufacturers in this connection. In order to stimulate this development the company have appointed travelling representatives in various new markets, and a considerable expansion in export trade may consequently be expected. Continuing, Sir Thomas said the druggists' sundries department has again had a successful year's trading, notwithstanding the continued difficulties in obtaining supplies. The prices of sundries are still rising, and orders are only accepted on the condition that the goods shall be charged at the prices obtaining at the time of delivery; in some cases this has meant as much as 50 per cent. increase or more. As an illustration, glass bottles were recently offered by a Continental house at a figure 50 per cent. lower than the price ruling here, but when the order was acknowledged the company were informed that they found it necessary to advance the price 100 per cent., thus bringing it up to the current rates here, and even at that figure they could not guarantee delivery; this may be due to the loss on the rate of exchange, or to the increased cost of production. As far as Continental goods generally are concerned they have advanced during the year from 10 per cent. to 100 per cent., and owing to the withdrawal of the import restrictions a greater variety is now being offered, but the supply is short, and delivery very erratic and slow. The speciality or packed goods department has had an exceptionally good year, having been able to secure a much better supply of bottles and other containers than was the case in 1918. With regard to cod-liver oil, which is a product of great importance to the company, fishing is now proceeding at the company's factories at Balstad, in the Lofoten, and on the North British Coast; and there is every appearance of the season finishing well. The cod are fairly plentiful, and although the livers are high in price and small they are very fat, and yield a good percentage of oil. At the beginning of the season operations were very much hampered by continuous storms, which prevented the fishermen going out, but notwithstanding that the number of cod caught up to the present is more than double that of any year since 1916. It is impossible at this stage to predict what the final result will be, but if the fish remain on the feeding-grounds and the weather is good the season ought to be a successful one. The year's trade in Vitarifer is by far the largest since the food was first placed upon the market. This, said Sir Thomas, is very gratifying, and synchronises with the increasing volume of testimony to its usefulness which is constantly being received from the medical profession, nurses, and the public. The demand from abroad has been exceptionally great, and agencies have been arranged during the year with various countries which, owing to the war and export restrictions, have not hitherto been exploited. It is gratifying to learn from the scientific apparatus department at Broad Street that British manufacturers are still supplying the bulk of the laboratory ware (glass and porcelain) and filter paper. Advances have been made by the manufacturers not only in quality and finish, but in the variety of articles supplied. Graduated glass, which in the early days of the war was scarcely attempted, and was consequently difficult to obtain, is now being made in England, not only in quantity but in excellent quality. The chemical and pharmaceutical laboratories at Saltley have been fully employed during the year, and the output has shown a substantial increase over the previous year. The demand for the company's chemical products has been very great indeed, and at times it has been found difficult, in spite of increased accommodation and staff, to keep pace with orders. The plants for chloroform, salicylates, iodides, etc., have been fully engaged, and the synthetic drug phenyl-quinolin-carboxylic-acid, marked under the trade name of "Phenoquin," has fully justified its introduction, and sales are rapidly increasing. Hippuric acid and its salts, the manufacture of which the company introduced into this country, have also been in great demand. With regard to the prospects of the fine chemical industry in this country, little if any German competition has been felt up to the present, while the adverse condition of the American exchange has very effectually handicapped the American maker in his efforts to undercut this market. Since the collapse of the licensing system, following the legal decision last year, this infant industry has been without any artificial form of protection, but it is to be expected that as a "key" industry steps will be taken to protect it against such forms of competition as would prevent its becoming firmly established in this country. Educationally the year has seen the establishment of a curriculum for the Qualifying examination of the Pharmaceutical Society, a step which should enhance the status of the pharmacist. It has also seen the inauguration of a School of Pharmacy in Birmingham under the auspices of the City Council and the Council of the Birmingham Pharmaceutical Association, which, while

primarily supplying training for demobilised soldiers, should eventually form a permanent school for pharmaceutical education in Birmingham. At the last annual meeting Sir Thomas referred to this year being the centennial year of the company, it being just one hundred years since it was founded. He then thought of presenting at to-day's annual meeting some notes respecting the origin of the house and its progress during the hundred years, but it has been decided to publish separately the particulars referred to, at an early date, in an illustrated booklet. Concluding, Sir Thomas, on behalf of the directors and shareholders, heartily thanked the members of the staff and the workpeople generally for their successful efforts in making the past year's trading one of the best on record.

The motion was seconded by Mr. Thomas Barclay, who said the efforts of the company to secure new markets for the products of the Saltley works had met with some success, and further success was hoped for. By carrying the firm's surgical dressings to all parts of the world the war had advertised them extensively, and inquiries were now coming in from many out-of-the-way countries. Cotton, of which the firm used something like 2,000 tons a year, was very difficult just now, high in price, and scarce. American cotton was now six and a quarter times what it was in 1915, and Egyptian cotton and yarns ten and a quarter times as much. The motion was unanimously adopted. On the motion of Mr. A. W. Southall, seconded by Mr. E. W. Mann, the dividends recommended by the directors were declared, the ordinary shareholders getting 10 per cent., together with a bonus of 1s. per share, both free of tax. Mr. T. Barclay and Mr. W. E. Hipkiss were re-elected directors. In moving a vote of thanks to the chairman and directors for their able management of the affairs of the company, Mr. C. J. L. Hickling said he had lately come across a list of those forming the provisional committee of Lloyds Bank fifty-five years ago, and found among them the name of Mr. William Southall. It was gratifying to find that both concerns had grown from modest beginnings into world-wide prominence, and the association between the two had always been most pleasant. Councillor Jeffrey Poole seconded the vote, and it was accorded with heartiness. Sir Thomas Barclay, in reply, thanked the shareholders for their courtesy and for the confidence they had in the board. He had been associated with the company for sixty years, and its progress had been uniformly successful. He saw a long vista of usefulness before it, with its operations widening out in many directions.

Business Changes.

ARNOLD ROBERTS & Co., chemists, 171 High Street, Acton, London, W.3, have taken over the business of Mr. R. H. Hands, chemist and druggist, Campden.

MR. THAKOREDAS has opened a business as Thakor's Medical and Surgical Stores, Princess Street, Bombay. He was formerly with Govindji Damoder & Co., Bombay.

MR. W. HOLFORD MEYER, chemist and druggist, Tiverton, has purchased the business of Badham & Sloman, chemists, 282 Higher Union Street, Torquay, and will carry it on under the old name.

MR. F. W. BOON, chemist and druggist, Gainsborough, has sold his business to Mr. R. W. Bolton, chemist and druggist, and Mr. J. W. Huzzard, who will continue the business under the style of Bolton & Huzzard.

FRENCH & PLUCKNETT, Colonial brokers, 7 Mincing Lane, London, E.C. 3, intimate that they have admitted, as junior partners, Mr. Sydney John Benton and Mr. Henry Theodore Groom, who have been associated with the firm for many years.

MR. W. BREDT, chemical and drug merchant, has arranged to conduct his business from the offices of Mr. S. L. Flores, 40 Mincing Lane, London, E.C., as a separate department of that firm. His telephone numbers will be Avenue 3623 and 3624. Telegrams and cables: "Yatebas," London.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

HESLOP CATTLE OIL CO., LTD. (P.C.).—Capital, 5,000/. Objects: To take over the business carried on by A. Heslop at Darlington and to carry on the business of manufacturers of and dealers in cattle and horse oils, medicines, etc.

BOURNE JOHNSON & CO., LTD. (P.C.).—Capital, 10,000/. Objects: To take over the business of druggists' sundries men carried on at Furnival Street, E.C., as "Bourne Johnson & Co." Solicitor: M. D. Houstoun, 44 Bedford Row, London, W.C.

TECHNICAL RESEARCH WORKS, LTD. (P.C.).—Capital, 50,000/. Objects: To promote scientific research and investigations of all kinds, etc. The first directors are: R. B. Miller, G. E. Loder, E. R. Bolton, B. C. Yaxley, and E. J. Lush. Solicitors: Janson, Cobb, Pearson & Co., 22 College Hill, London, E.C.

VIGORINE, LTD. (P.C.).—Capital, 2,000/. Objects: To carry on the business of manufacturers of and dealers in condiments, foods, medicines, medical preparations, drugs and spices for horses, cattle, and other animals, etc. The permanent directors are: A. J. Thompson, 15 Earlsfield Road, Wandsworth, S.W. 18, and D. Driscoll.

LATOUR ET CIE., LTD. (P.C.).—Capital, 2,000/. Objects: To carry on the business of manufacturers of and dealers in perfumery, toilet requisites, soap, brushes, fancy goods, hardware, cutlery, drugs, essences, essential oils, etc. The permanent directors are W. M. Bunting, A. P. Beer, and S. H. Smith. R.O.: 53 New Broad Street, London, E.C.

KENNETH RIGBY & CO., LTD. (P.C.).—Capital, 10,000/. Objects: To carry on the business of soap manufacturers, pharmaceutical, manufacturing and general chemists, druggists, etc., and to adopt an agreement with J. M. Beckett & Son, Ltd. The first directors are: K. Rigby, Roofrec, Hale, and H. Beckett, 6 Booth Street, Manchester, chemical manufacturer. R.O.: 105 Hulme Hall, Miles Platting Lane, Manchester.

H. J. WADE & CO., LTD. (P.C.).—Capital, 8,000/. Objects: To take over the business carried on by H. J. Wade at 37 Railway Road, Blackburn, Lancs, as "H. J. Wade & Co." and to carry on the business of chemists, druggists, drysalters, oil and colourmen, etc. The first directors are: H. J. Wade, 70 East Park Road, Blackburn, and B. W. McArthur, Bank House, Golborne. R.O.: 37 Railway Road, Blackburn.

NATIONAL CHEMICAL WORKS, LTD.—In the Chancery Division of the High Court, London, on March 31. Mr. Justice P. O. Lawrence heard a motion by Copley's Bank, holders of 33,000/- debentures, for the appointment of a receiver and manager of the National Chemical Works, Ltd., manufacturers of perfume and toilet requisites. Mr. Whinney, for the bank, stated that there was no defence to the application, and that a petition was pending for the winding-up of the respondent company. Counsel for the company submitted to the appointment, and his lordship accordingly made the order asked for.

COMPANIES WHICH MAY BE WOUND UP.—Three months from March 30 the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the register and the companies will be dissolved: College of Mechanical Dentistry, Ltd.; Fylde Drug Stores, Ltd.; Harper's Physical Culture Reform, Ltd.; Healtheries, Ltd.; Hygienic Toilet Novelties Co., Ltd.; Liverpool Salicylic Co., Ltd.; Manor Remedies Co., Ltd.; Ogden Cash Chemists, Ltd.; Riverside Chemical Co., Ltd.; Self-Cure Remedy Co., Ltd.; Stanley-Davies (Caerphilly Cash Chemists), Ltd.; Williams' Chemical Manufacturing Co., Ltd.: World's Anti-septic Ammonia, Ltd.

Birth.

BAILEY.—At 10 St. Kilda's Road, London, N. 16, on April 4, the wife of A. E. Bailey, chemist and druggist (chief technical officer, London Insurance Pricing Bureau), of a son.

Marriages.

GEORGE—BRADBURY.—At Cardiff, on April 4, Gordon Seawell George, chemist and druggist, only son of Mr. O. George, Mackenzie Road, Cambridge, to Hilda Gwendoline Bradbury, chemist and druggist, seventh daughter of Mr. P. B. Bradbury, 9 Victoria Park Road East, Cardiff.

MURISON—MEYER.—At Charleston Road Methodist Church, Dublin, on March 31, by the Rev. J. M. Alley, assisted by the Rev. E. W. Young, John Thomson Guy Murison, chemist and druggist, second son of Mr. John Murison, chemist and druggist, chairman and managing director of Parke's Drug Stores, Ltd., London, N.W. 1, to Eileen Doris, youngest daughter of the late Mr. Samuel Meyer and of Mrs. Meyer, Dublin.

NORMANDALE—NEWTON.—At Holy Trinity Church, Yeovil, on April 6, Clarence Longton, son of the late Rev. W. G. Normandale, Maidenhead, to Margaret Irene, only daughter of Mr. Arthur Newton, chemist and druggist, Holly Bank, Yeovil.

Deaths.

AITKEN.—At 142 Gilesgate, Durham, on March 26, Mr. William Aitken, chemist and druggist, a partner in the firm of Hayton & Co., wholesale druggists, Gilesgate. Mr. Aitken qualified in 1879, and joined Messrs. Hayton as partner a few years later.

CHALMERS.—At Calcutta, on April 5, Mr. Albert John Chalmers, M.D., F.R.C.S., registrar of the Wellcome Tropical Research Laboratories, Khartoum.

DOUGLAS.—At Eden, Carrickfergus, on April 1, Mr. Hugh Douglas, father of Mr. Joseph Douglas, R.D.

EADE.—On January 10, Mr. James Eade, chemist and druggist (George Eade & Sons, 232 Goswell Road, London, E.C. 1). Mr. Eade was registered as being in business before August 1, 1868. His brother, the late Mr. George Eade, passed away in 1909.

GARLAND.—At 65 Granville Road, Blackburn, Lancs., on March 31, Mr. Alfred Philip Garland, Ph.C., aged eighty. Mr. Garland, who passed the Major examination in 1861, was in business in King William Street, Blackburn, for a long period: a few years ago he retired and disposed of his pharmacy. He was a valued member of the North-East Lancashire Chemists' Association.

JACKSON.—At 97 Fore Street, Ipswich, on March 31, after three days' illness, Mr. John Thomas Jackson, chemist and druggist, aged fifty-seven. Mr. Jackson had carried on business in Ipswich for the past twenty-nine years.

LEMMON.—At Billingshurst, on March 31, Mr. George Francis Lemmon, chemist and druggist, aged seventy-six. Mr. Lemmon was in business before August 1, 1868.

MEADOWCROFT.—At Fairhaven, on April 1, Mr. William Meadowcroft, chairman of W. Meadowcroft & Son, Ltd., essence manufacturers, Regent Street, Blackburn, aged eighty-three.

ROBERTSON.—At 6 Chasefield Road, London, S.W. 17, on March 23, Mr. William Robertson, chemist and druggist, aged forty.

SPRACKETT.—At 67 St. Albans Road, Bristol, on March 23, Mr. William Robert Haycroft Sprackett, chemist and druggist, aged seventy-two. Mr. Sprackett was formerly in business at 5 Broad Quay, Bristol; he disposed of his pharmacy and retired in 1916. He leaves a widow.

Personalities.

MR. J. McARTHUR. representing Savory & Moore, Ltd., sailed for the Far East on April 8, and intends calling with samples on all chemists in the territories visited.

SIR RICHARD WINFREY, M.P., Ph.C., sailed for the United States on April 7, in order to fulfil engagements in connection with a World Brotherhood Conference.

ALDERMAN J. A. HEATON. chemist and druggist, St. James's Street, Burnley, has been appointed a magistrate for the borough. Alderman Heaton has been a member of the Burnley town council since 1900, and has served on more than one of its committees.

The accident to Mr. A. V. Wood, son of Mr. Vincent Wood, 91 and 93 Newington Causeway, London, S.E. 1 (*C. & D.*, February 14, p. 57), is, we regret to learn, more serious than at first believed, and he will be unable to resume his journeys on behalf of his father for some considerable time.

The recent awards of the Order of the British Empire include, in addition to those given in our last issue (p. 79) : Mr. William Briggs, J.P., retired pharmacist, The Vale, Lancaster, chairman of the local war pensions committee and ex-Mayor of Lancaster—*O.B.E.*; Mrs. Briggs—*M.B.E.*; Mr. W. Herbert Walden, M.B.E., Ph.C., assistant inspector of medical supplies at the War Office since 1893—*O.B.E.*

ALDERMAN O. A. CLARK, M.B.E., chemist and druggist (senior partner of Nunn, Hinnell & Clark, chemists, Bury St. Edmunds), has received the freedom of his borough, as forecasted in *THE CHEMIST AND DRUGGIST* (1919, page 1303).

At the recent ceremony of presentation, fitting allusion was made to Alderman Clark's six years of service as Mayor of Bury, and to his indefatigable efforts in additional capacities during the war. In the course of an interesting reply, Alderman Clark remarked that the War Office had just informed him he could now retire from the R.A.M.C. (V.) with the rank of captain. He had been in Bury for forty-one years, and had tried to serve all sections and to promote the general welfare of the town and district.

MR. T. EDWARD LESCHER, who, as briefly announced in our last issue (p. 79), has been made an Officer of the Order of the British Empire, has been the recipient of many congratulations upon this well-won honour. The official record following Mr. Lescher's name in the list is as follows: "Honorary Secretary of the Drug Club; services to the National Insurance Commission." This is a brief way of referring to the expert services rendered by Mr. Lescher during the war in the distribution of various controlled commodities, some of which were entrusted to the Drug Club for allocation. As everyone in the trade knows, Mr. Lescher is a director of Evans Sons Lescher & Webb, Ltd., and a son of the late Mr. F. Harwood Lescher, Ph.C. He has been President of the London Chemists' Golfing Society for several years past.



ALDERMAN O. A. CLARK, M.B.E.



MR. T. E. LESCHER.

Trade Notes.

WILLIAMSON BROS., Corporation Chambers, 54 Lower Thames Street, London, E.C.3, wholesale druggists' sundriesmen, have opened a showroom at Office No. 7, 49 Deansgate, Manchester.

"CRYSTAL PALACE" MARKING INK.—Alterations in the price of John Bond's "Crystal Palace" marking ink are announced as from April 1. The minimum retail prices are now 5½d. and 11d. [Corrected notice.]

POLAK'S ESSENTIAL OILS.—Polak's Frutal Works, Amersfoort, Holland, have issued an interesting market report and price-list of their essential oils, synthetics, artificial fruit oils, etc. Their market comments on leading products are a feature of the report.

FLEUR-DE-LYS PREPARATIONS.—J. C. & J. Field, Ltd., 15 Upper Marsh, London, S.E.1, give a list of the Fleur-de-Lys toilet preparations which they manufacture. The preparations are packed in distinctive packages of gold and black design, which makes them particularly adapted for sale by chemists.

THE MONS' MAN.—Thomas Christy & Co., Old Swan Lane, London, E.C.4, give particulars of the "Mons' Man" window-display, which is to advertise Zepto pencils in chemists' windows throughout the kingdom. The show-card is in fifteen colours, and a black-and-white illustration is given in this issue.

B. W. & Co.'s PRICES.—It has been arranged that in future alterations in the trade prices of Burroughs Wellcome & Co.'s products will be announced in THE CHEMIST AND DRUGGIST, so that chemists can revise the retail prices promptly. The first list covering March appears in this issue and should be closely studied.

SEIGEL'S SYRUP.—In connection with the recent alteration in the retail price of Seigel's syrup, A. J. White, Ltd., 35 Farringdon Road, London, E.C.1, offer to send gummed price-tickets for affixing to the packages which are in stock. As has been mentioned in the C. & D., the 1s. 3d. size was discontinued on March 25.

IGLODINE SHOW-CARD.—A striking show-card in colours, with a red-cross nurse as the chief feature, has been issued by the Igiodine Co., Ltd., Igiodine Buildings, Pilgrim Street, Newcastle-on-Tyne, as an advertisement for their product. The same design is also issued as a window-bill. Either can be had on application.

GOVERNMENT SURPLUS.—As announced in the C. & D., March 27, p. 66, an enormous purchase of Government surplus supplies has been concluded by Rowson, Drew & Clydesdale, Ltd., 225 Upper Thames Street, London, E.C.4. In an advertisement in this issue the company give further particulars of their purchase and the class of goods which are being offered to drug-trade buyers. The sale system that has been devised is also explained.

CHEMISTS' EXHIBITION.—At the Northampton Polytechnic Institute, Clerkenwell, London, E.C., on April 12, the following (among others) will be exhibiting:

Robert Bailey & Son, Ltd., Stockport.

John Bell, Hills & Lucas, Ltd., Tower Bridge Road, London, S.E.1.

British Toilet and Perfumery Co., 64 Great Titchfield Street, London, W.1.

W. H. Calnan & Co., 30-33 Ludgate Hill, London, E.C.4.

The Delphinus Manufacturing Co., 45 Edward Street, Brighton.

C. R. Harker, Stagg & Morgan, Ltd., Devon Wharf, Mile End, London, E.1.

The Hoffmann-La Roche Chemical Works, Ltd., 7 & 8 Idol Lane, London, E.C.3.

W. T. Owbridge, Ltd., The Laboratory, Hull.

Parke, Davis & Co., 50-54 Beak Street, London, W.1.

Robartes, Ltd., 1 Dyer's Buildings, Holborn Bars, London, E.C.1.

Sorbo Rubber-Sponge Products, Ltd., 24 Walbrook, London, E.C.4.

The Viscose Development Co., Ltd., Bromley, Kent.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

WAR EMERGENCY LAWS (CONTINUANCE) ACT.

This measure, which, among other matters, continues the Cocaine and Opium Regulation made under the Defence of the Realm Act, received the Royal Assent on March 31.

MEDICAL RESEARCH COMMITTEE.

In reply to a question by Mr. Waterson, the Minister of Health stated in the House of Commons, on March 25, that no deduction is made from the contributions under the National Insurance Acts for purposes of research. The sums appropriated for research are paid out of moneys provided by Parliament. An account of the receipts and payments of the Medical Research Committee audited by the Comptroller and Auditor-General is submitted each year to Parliament with the annual appropriation account of the National Health Insurance Joint Committee.

RENT OF BUSINESS PREMISES.

A case was mentioned in the House of Commons on March 31, where a Liverpool firm, who had been tenants of premises there for over twenty years and had been paying up to May 1916 an annual rent of 315/-, have now been asked to pay 1,600/- a year upon the termination of their tenancy on September 30. The Committee now considering the question of the rent of houses has the case before it, said Dr. Addison, the Minister of Health, and the Committee has also in view the hardships on small shopkeepers in all parts of the country who are having increased rents placed on them.

POTASH CONTRACTS.

Sir R. Cooper, on March 31, asked the Chancellor of the Exchequer what is the value of the food supplied to Germany that has been specially allocated against the potash contract entered into with the German Government by the Board of Trade representatives.

Mr. Chamberlain replied: The sum credited to Germany under this contract amounts up to March 30 to 612,838/. The Government have agreed to place the amounts due to Germany under the contract to the credit of the German Government in a London bank on the receipt of an undertaking that the money will be used for the purchase of food in this country, and are awaiting the receipt of an undertaking to this effect.

KEW GARDENS.

Sir A. Boscawen, in the House of Commons on March 25, stated that the Royal Botanic Gardens, Kew, attempts to grow all species of plants likely to be hardy in this country, since it is a scientific botanic garden. Kew is always prepared to assist botanists engaged in the study of genetics by supplying them with specimens of any species of which they may be in need. The actual work of hybridisation, etc., is not carried out at Kew, as it is outside the functions of the institution. The John Innes Horticultural Institution at Merton, however, where such work is pursued, is frequently supplied with material from Kew. Species of *Dianthus*, as of other genera, whether interesting to the florist or not, are, as far as possible, cultivated in the Royal Botanic Gardens.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.
S/64. "Rex" self-generating electric batteries. A/313. "Ovolax" lozenges.
M/74. "Pall Mall" nasal atomisers. S/64. Jones' after-dinner pills.
M/313. Royal Dorothy Soothers (Cooks' Patent). S/84. "Lorna" (non-alcoholic beverage).
E/14. Bals' wines. D/84. "Solonia" ringworm lotion.
E/74. Extogan. L/84. Sanaflora scented disinfectant.

Observations and Reflections.

By Xrayser II.

The Professional

rather than the personal factor in pharmacy is what has to be taken into account in pricing prescriptions, and though this is a nice distinction, it is not a mere quibble, since it is not our personal worth but our professional status upon which the calculation of cost really rests. With this partly verbal difference I am in agreement with Mr. C. T. Allen, so far as I understand him. I do not, indeed, see any difference in principle between reckoning the selling price or the first cost of the ingredients as the basis of the charge we make; to take either as the chief, or, I will add (generally speaking), as an important factor, is to reduce dispensing, to that extent, to the level of a commercial transaction, and therefore to lower the professional status upon which our charges should depend. Probably Mr. Allen will agree with me here, since he admits that in some cases the cost of ingredients is negligible. Where we are less likely to be in complete agreement is the charge for time. This is just as commercial a calculation as the charge for cost, and in many cases it is almost equally negligible. It is the workman's, as distinguished from the trader's mode, and, although we cannot ignore either, a meticulous estimate of the minutes occupied is as much to be deprecated as a minute pricing of every ingredient used. Both items, too, vary so much in different circumstances that charges based upon them can never be stable. All things considered, I must hold to the system of charging for which I have always contended.

2,000 New Men,

said Sir William Glyn-Jones at Birmingham, are likely to come on the Register very shortly. It does not need much arithmetical skill to estimate their immediate cash value to the Society, and Mr. Wolff is probably right in saying that they are saving it from bankruptcy. This, no doubt, is what (in the words of your correspondent "Yorkist") the Council sees "beyond the 12/- 12s. examination-fee," and, being what they are—men in a strait—it is not very strange if they see no further. 25/- or so is a nice lump sum, and there will doubtless be a number of annual guinea subscriptions besides this. We are all concerned in the prosperity of the Society, and in itself this addition to our ranks is from that point of view to be welcomed; but this is only true if the men who enter pharmacy are themselves prosperous in it. Are the present conditions of pharmacy in this country such that it can carry these additions to its own advantage and theirs? It is quite certain that pure pharmacy alone will not support them all unless conditions are radically altered, and of that there is little apparent prospect. We have been told that there are already too many of us in business, and, as Mr. Wolff says, many of us cannot afford to give the salary due to a qualified man. Now the superfluous pharmacist, like the superfluous woman, is apt to become a nuisance, and unless some outlet for his energies can be found he is likely to be a drag on the machine rather than a help. While men are so scarce I am inclined to think (the financial straits of the Society apart) he would do well to look elsewhere for his career.

Your Remarks

on the Aspirin Report seem to me (with all deference) to ignore one or two not unimportant facts. It is, no doubt, true that the report contains little or nothing that was not known before to those who are chiefly concerned in the manufacture and distribution of the article, but the report is not meant for them. Of course, the information it contains for the general public and members of Parliament could have been obtained on cheaper terms in the way you suggest, but would it then have had the same force and authority? Democratic government is not a money-saving device, but a rather expensive way of educating people in the art it prac-

tises; and if we would have the lesson we must pay the fees. Again, the report should be judged in the light of the fact that aspirin forms a test case; the sub-committee has a much larger commission than this, aspirin being only one out of many articles to which its investigations extend, and to which the principles laid down in the report will apply. Personally I am inclined to think the report worth something approaching what it has cost, especially to us retailers of drugs, whose right to a fair profit it so emphatically asserts. Many points of special interest, too, it has, the chief of which, perhaps, is the difference between the prices of different brands of aspirin the quality of which is practically equal. This, again, is not new, but it is worth while to have it recorded by a competent and impartial tribunal. The question of self-drugging is another that ought not to be overlooked. Logically, this report should lead to the restriction of the retailing of such things as aspirin to qualified men.

"Pilâtre du Rozier"

(referred to last week in your French News) is not the only French pharmacist who experimented in aeronautics, though to him belongs the chief honour of solving the problem of using the balloon as an airship. Proust (whose name is preserved in *Proustite*) is another. The son of an apothecary of Angers, he afterwards became pharmacist at the Salpêtrière in Paris, and in 1784 he accompanied his friend de Roziers (as the name is, I think, usually spelt) in his famous flight to Spain in a *ballon à air chaud*. He remained in Spain for some time, and did much of his best work in chemistry while professor of that science in Madrid and Segovia. The outbreak of war between France and Spain drove him home to Paris, where he was received into the Academy of Sciences. He is best remembered in connection with his controversy with Berthollet on the subject of the proportions of the constituents of chemical compounds. Proust conclusively proved their constancy.

Dreams

were the subject of a lecture I heard the other day, the basis of which was Freud's theory of dreams. Without entirely committing himself to an acceptance of this theory, the lecturer treated it with great respect. He did not, however, think that all our dreams, or even the fact of dreaming, can be infallibly referred to any one cause, but he seemed to regard all dreams as involving the immergeance of "the subconscious mind," uncontrolled by the will or the logical faculty. Objection might, I think, be taken to the term "subconscious mind," for surely mind and consciousness are too closely related to be separated; let us rather say "the subconscious self." Recently, dipping into Dr. Alexander Findlay's "Chemistry in the Service of Man," I came across a very remarkable instance of a dream in which the subconscious self gave the clue to a great scientific discovery. Kekulé, when much preoccupied with his theory of chemical structure, fell into a doze before his fire, and dreamt (as he tells us) that he saw the atoms gambolling before him, the chains twisting and twining in snake-like motion. "But look! What was that? One of the snakes had seized hold of its own tail, and the form whirled mockingly before my eyes. As if by a flash of lightning I awoke" . . . having here found the clue to the structure of the benzene molecule, "a ring of six carbon atoms to each of which a hydrogen atom is attached." "Let us," he says, "learn to dream; then perhaps we shall find the truth." One is reminded of Keats's comparison of the poet's dream to Adam's: "He awoke and found it truth." Kekulé, however, adds that we must submit our dreams "to the proof of the waking understanding."

THE ANSWER'S A LEMON.—"La Farmacia" (Lyons) informs its readers that an American paper put the following question to the American soldiers on returning from Europe: "What struck you most while in France?" The majority replied, "That pharmacists do not serve drinks."

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ALFRED FENNINGS, COWES, I.W.

PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

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Editorial Articles.

Drug Cultivation in India.

SINCE we last referred to the cultivation of drugs in India and the manufacture of pharmaceutical preparations, in our issue of October 25, 1919 (p. 81), a fair amount of progress has been made in putting matters into shape. It is almost two years since the Indian Board of Scientific Advice accepted a proposal for the formation of a Drugs Manufacture Committee to investigate the possibilities of the cultivation of medicinal plants in India and the manufacture of them on a commercial scale. It may be recalled that the Government of India acted on this recommendation and appointed a Committee whose primary functions were to investigate. This Committee has met many times at Simla and accomplished much spade-work. At its first meeting it was resolved, *inter alia*,

(a) That the main investigation of the Committee should be conducted in the laboratories of the Government Medical Stores Department, and that the question of the manufacture of drugs from other than vegetable sources should come within the scope of the Committee's work.

(b) That measures should be taken for ascertaining the geographical distribution of various medicinal plants throughout India, and the extent to which they are now cultivated.

(c) That the operation of the Committee should include the investigation of indigenous drugs which are not at present included in the British Pharmacopoeia.

(d) That the Committee should give every assistance to any organisation which is brought into being for the

purpose of investigating and manufacturing preparations designed for use against disease-carrying and other insects.

(c) That local Governments and administrations should be informed of the establishment of the Drugs Manufacture Committee and requested to furnish the Committee with any information likely to be of value.

The secretary has now issued a statement, in the course of which it is indicated that considerable progress has been made, as is shown by the fact that, among others, the following articles, which prior to the war were imported, are now manufactured on a commercial scale in the Government Medical Store Depôts:

Absolute alcohol; aloes preparations; amyllum, B.P.; argenti nitras; argenti nitras induratus; belladonna preparations; borated talc powder; calcium carbonate precipitated, B.P.; calcium chloride; calcium phosphate; calcium sulphide solution; citric acid and citrates; collodium; collodium flexible; creta preparata, B.P.; digitalis preparations; extract belladonna siccum; extract cascara sagrada liquidum; extract cascara sagrada siccum; extract colocynth. co. (dry extract); extract glycyrrhiza liquidum; extract hyoscyamus; extract nux vomica siccum; extract of vitamine; extract opii siccum; ferri sulphas; French chalk; glucose; iodine powder; keratin solution; lysol; magnesii carbonas leviss., B.P.; mammite; nux vomica preparations; oleic acid; oleum anethi; oleum canisi; oleum caryophylli; oleum cedri; oleum chaulmoogra; oleum crotonis; oleum myristica; oleum santali; oleum theebromatis; oxymel scillæ; potassium carbonate, B.P.; pyroxylinum; rectified alcohol; sapo mollis; sodium carbonate, B.P.; sodium chloride chemically pure; sodii nitris; sodii phosphas; sodii sulphas; syrupus ferri phosphatis co.; talc purificatum; tannic acid; thymol, B.P.; tintura colchici; tintura coichichi corn.; various mercurial B.P. preparations.

No information is given as to the output of the above products over a certain period, or say since the commencement of operations. We look upon the experiment as quite tentative, and it seems curious that the Government should concern itself with manufacturing operations, but the probability is that private enterprise will be invited to undertake manufacture later, after it has been ascertained what lines are profitable. The cost of production will have to be lower than the import cost; but this is quite possible where the raw material is indigenous to India.

Patents and Trade-marks.

WHEN the Patents and Designs Act, 1919, and the Trade-marks Act, 1919, were before Parliament we gave an outline of the changes in the law which would be effected by these measures. The Patents and Designs Act came into force on December 23, 1919, except Sections 1 and 2, which came into force on April 1. The Trade-marks Act came into operation on April 1, so that the present is a suitable time to refer to the alterations in the law of commercial property represented by patents and trade-marks. The Patents and Designs Act, 1919, is primarily directed against the abuse of patent monopolies, as, for instance, of such abuses as (a) preventing the use within the Realm

of the patented invention—from ulterior motives; (b) using a patent monopoly to encourage trade abroad and to hinder trade in the Realm; (c) hindering the trade in the Realm by refusing to grant licences. To prevent these abuses the new law treats as abuse of monopoly rights—(a) non-working of patent within four years—(subject to exceptions); (b) importation of the patented article by the patentee or his representatives to

an extent which prevents working the patent within the Realm on a commercial scale; (c) inability to meet the demand for the patented article on reasonable terms; (d) refusal to grant licences; (e) imposition of unfair conditions in the purchase, hire, license, or use of the patented article. Where there is such abuse, the Comptroller is now empowered (a) to grant "licences of right"; (b) to order the grant to the applicant of a licence subject to a variety of conditions; (c) in exceptional cases to grant an exclusive licence; (d) to revoke the patent; (e) where no order seems advisable, to make no order, and the Comptroller in the latter case may dispose of the question of costs as he thinks fit. Apart entirely from the question of the grant of licences by official intervention for the purpose of remedying an abuse, the new Act provides for the endorsement of a patent "Licences of right," on the request of the patentee. This provision is intended not only to encourage invention, but to secure that new inventions shall so far as possible be worked within the Realm without undue delay. The endorsement "Licences of right" would render the patent subject to immediate licence on terms to be settled by the Comptroller. Renewal fees on such patents are to be reduced to half from date of endorsement. The term of British grants is now sixteen years. Patents for chemical substances, for foods or medicines are to be subject to the grant of a licence to any person, and it is a statutory condition that the terms to be fixed by the Comptroller shall have regard to the desirability of making the food or medicine available at a reasonable price. The provisions relative to designs are directed against abuse of monopoly, and involve the cancellation of exclusive rights where (a) the design has been first published abroad, or where (b) the design is principally used abroad and is not employed to a reasonable extent in the United Kingdom. The new Trade-marks Act also claims to adjust abuses of monopoly rights. It proposes

to remedy abuses arising out of names for TRADE- patented substances exclusive rights in which MARKS shall cease on termination of the patent. ACT.

Further, the names of a single chemical element or single chemical compound shall, if registered, be removed from the Register on the application of any person aggrieved. The Register is now to be divided into two sections, "Part A" and "Part B." Part A is to cover all marks now registered, and Part B is to cover marks in use in the United Kingdom for not less than two years which may be rejected as Part A trade-marks. Part B trade-mark applications require to be accompanied by evidence of user. Part B registrations shall be *prima facie* evidence of exclusive right, but no injunction shall be granted in an action for infringement if the defendant establishes his claim that the use of the mark by him does not deceive. The principal revisions in these enactments during their passage through Parliament may be best understood by indicating the context in which they appear. Dealing first with the Patents and Designs Act and with the provision relative to actions brought against infringers by licensees, the following addition has been made to Section 1 (3) :

A patentee so added as defendant shall not be liable for any costs unless he enters an appearance and takes part in the proceedings.

In Section 1, Sub-section (11), after the words "All orders of the Comptroller under this section shall be subject to appeal to the Court" are added: "and on any such appeal the law officer or such other counsel as he may appoint shall be entitled to appear and be heard." At the end of Section 1, Sub-section (11), are added the words: "and where a question or issue of fact is so referred, the

arbitrator shall report his findings to the Comptroller." To Section 2, Sub-section 1 (d), are added the words : "A patentee so added as defendant shall not be liable for any costs unless he enters an appearance and takes part in the proceedings." The following words have been deleted from Clause 7 :

Including in particular any loss or damage which may have been occasioned to the patentee as such by reason of hostilities.

And inserted in their place are the words :

Where by reason of hostilities . . . the patentee as such has suffered loss or damage (including loss of opportunity of dealing in or developing his invention owing to his having been engaged in work of national importance connected with such hostilities) an application under this section may be made by originating summons instead of by petition, and the Court, in considering its decision, may have regard solely to the loss or damage so suffered by the patentee, provided that this sub-section shall not apply if the patentee is a subject of such foreign State as aforesaid.

In Section 8 has been inserted :

A patent shall have to all intents the like effect as against His Majesty the King as it has against a subject.

Provided that any Government Department may by themselves or by such of their agents, contractors, or others as may be authorised in writing by them at any time after the application, make, use, or exercise the invention for the services of the Crown on such terms as may, either before or after the use thereof, be agreed on, with the approval of the Treasury, between the Department and the patentee, or in default of agreement as may be settled in the manner hereinafter provided.

Sub-sections 2, 3, and 4 are added to Section 8, which are too long to quote, but deal with possible disputes arising out of the use of patented inventions for the services of the Crown. In Section 15 words are introduced making Section 29 of the principal Act applicable to designs. In Section 16 four new clauses are added to the principal Act in the place of one proposed in the Bill, all of which relate to registration of assignments of patents or designs, and inadmissibility of the documents in a court of law before registration. There are added to Section 22 the words : "Not being later than one year after the passing of this Act," relative to the operation of Sections 1 and 2, and also the words :

and the provisions of this Act relating to the terms on which an invention or registered design can be made, used, or exercised by a Government Department shall not come into operation until such time as may be fixed by order of the Board of Trade.

The principal revisions in the Trade-marks Act in its passage through Parliament are as follows : In Section 6 the following words are inserted :

No word which is the only practicable name or description of any single chemical element or single chemical compound as distinguished from a mixture shall be registered as a trade-mark, and any such word now or hereafter in the Register . . . may be removed.

Those words take the place of the following words :

If the proprietor of any registered word "trade-mark" uses his mark as the name or only practicable description of any single chemical substance, such mark . . . may be removed.

Whether or not there will be difficulty in construing the amendment, over which much time and debate have been expended, remains to be seen. Section 11 has been re-drafted, and contains provisions which are equivalent to rendering compulsory the registration of assignments of trade-mark rights. The new rules under the Patents and Designs Act, 1919, and the (draft) new rules under the Trade-marks Act, 1919, show many increases in fees payable and in evidence of the importance with which the necessity of registration of changes in proprietorship is now officially regarded provide for payment of a nominal

fee (1l.) when such registrations are effected promptly (within six months), but exact virtually a penalty fee (10l.) after that period. Two amendments in the patent law of particular merit are : A patent will in future not be invalid if it be found that some claims only should not stand, and a patent of addition may in certain circumstances become an independent grant.

A Striking Contrast.

THE General Medical Council was recently asked by the Privy Council to give an opinion upon the petition for the grant of a charter by the Society of Massage and Medical Gymnastics. The Executive Council not being in session, the President (Sir Donald MacAlister) directed a reply to be sent which stated :

The President desires me to state that in his opinion the petition for the incorporation by Charter of the Society of Massage and Medical Gymnastics is supported by all the leading medical and administrative authorities qualified to speak on the general subject of orthopaedics and massage treatment; that such incorporation would have the effect of prescribing a much-needed standard of training and examination for masseurs and masscuses; that the objections raised in the cross-petition are those of an obscure and unrepresentative local organisation, whose possible interests are negligible in comparison with those of the national organisation proposed; and that the reply lodged to the cross-petition is unanswerable, and should be regarded as conclusive in favour of the grant prayed for.

We have no doubt the Society of Massage and Medical Gymnastics fully merits the high encomiums thus bestowed, but this attitude is in sharp contrast to the way in which an equally important petition for a charter was viewed by the General Medical Council. In 1906 the British Optical Association "prayed for" the grant of a Charter of Incorporation with a view of raising the status of sight-testing opticians, providing a standard of qualification, and preventing the disastrous consequences of ignorant persons who profess to adapt spectacles for the sight. A Sight-testing Opticians Bill was brought forward at the same time, which proposed to set up a Board of Optical Registration. These were objects which one would think the medical profession would welcome with open arms, or at least view with benevolent approval. What the General Medical Council actually did is embodied in the following resolution :

That the Lord President of the Privy Council be informed that the Council have carefully considered the Petition and the Bill submitted to them, and are of opinion that it would be dangerous in the public interest to confer the privileges and powers contemplated therein on persons other than those duly qualified in medicine and surgery; that the Council trust that the sanction of Parliament and of the Privy Council be withheld from these proposals; and submit the accompanying Memorandum, which has the approval by the Council, as setting forth the grounds on which their objections are based.

The consequence of this dog-in-the-manger attitude is that any person, no matter how ill-instructed, may undertake to test sight and fit spectacles. This is done with disastrous consequences by travelling opticians and others because of medical opposition as set forth in the above expression of policy.

ST. VINCENT ARROWROOT.—The exports from St. Vincent during 1919 amounted to 5,084,262 lb., valued at 95,828l.

MR. ALFRED HOLT, retired chemist, 3 Windsor Terrace, Cleveleys, Poulton-le-Fylde, who died on January 22, intestate, left estate of the gross value of 2,773l. 3s. 5d., with net personalty 1,779l. 7s. 11d.

DR. J. E. MYERS AND MR. H. STEPHEN, lecturers in chemistry at Manchester University, who have received the O.B.E., carried out research in 1917 in connection with the production of mustard gas.

To endow a bed in memory of her brother, the late Mr. J. Wild, chemist and druggist, Clayton-le-Moors, who died in 1909, Mrs. Mary Hague has bequeathed 1,000/- to the Victoria Hospital, Accrington.

Pharmaceutical Society of Great Britain.

Council-meeting.

A MEETING of the Council was held on April 7 at 16 Bloomsbury Square, London, W.C. The chair was occupied by the President (Mr. W. L. Currie), and all the members were present with the exception of Miss Buchanan, Mr. J. W. Deakin, and Mr. F. P. Sargeant. The minutes of the meeting held on March 3 were read at a private meeting held the previous evening.

QUESTION.

The secretary read the following :

QUESTION.—Mr. Melhuish asked whether, in view of the reorganisation of the medical and allied services of the Army, as recently outlined by the Secretary of State for War, and the complete absence in the published report of any mention of a pharmaceutical service, something cannot be done at the present important juncture to support and strengthen the efforts of the committee of the Council dealing with this matter, either by deputation (as in the case of the dentists) or by renewed representations to the proper quarter.

ANSWER.—Communications have passed between the Society and the War Office regarding the delay in dealing with the scheme which was submitted to the Army Council representatives on the joint committee for their comments. It has become increasingly evident that in the opinion of the War Office there are serious objections against a separate pharmaceutical service. Following upon my request for a date when the joint committee could meet, a letter has been received this week from the Army Council offering any other day than a Tuesday or Friday for such a meeting. It is not possible to say until after that meeting whether it is necessary to support or strengthen the efforts of the representatives of the Pharmaceutical Council on the joint committee.

ANNUAL STATEMENT OF ACCOUNTS.

The secretary intimated that the annual statement of accounts, together with the auditors' report, had been circulated.

[A summary, together with a comparative statement for the previous year, is given on p. 70.—EDITOR.]

Mr. E. WHITE remarked that the document submitted was noteworthy because the income for the past year was twice that of any previous year.

Mr. WOLFF called attention to the item of 1,189*l.* 12*s.* 6*d.* for travelling expenses and refreshments, and expressed the hope that at the earliest possible opportunity the outlay on refreshments for members of the Council would be very considerably reduced by their agreeing each to pay for his own or her own refreshments. He reminded the Council that he had on previous occasions brought this item of needless expenditure to their notice, and that members of the Society were perfectly familiar with it; and he therefore urged that early in the period of office of the new Council a resolution should be passed abolishing the item from subsequent accounts.

Mr. HINES pointed out that on previous occasions reference had been made to the necessity of having a revaluation of the Society's assets, so that the entire finances of the Society should be placed upon a sound basis. Such a revaluation of assets in present-day conditions was, he submitted, most desirable from the point of view of members of the Society.

The TREASURER (Mr. Bilson) replied that the point raised by Mr. Hines was very carefully considered by the auditors at a meeting held a few days previously. The opinion then expressed was that, under the usual method of valuing assets adopted by Societies such as their own, it was practically useless to have a revaluation of stocks and shares unless at the same time there was a revaluation of the whole property. It was pointed out that where there might be a rise in the value of one form of asset there might be a fall in the value of another, and that it was not worth while to incur an expenditure of 1*l* 10*s.* for the revaluation of the whole of the assets.

Mr. WHITE, replying to the point raised by Mr. Wolff, said that the Council would be fully justified in taking the steps suggested by that gentleman if they felt that it was the general wish of the members of the Society that they should do so. His personal conviction, however, was that the members as a body did not desire it. Having ridiculed Mr. Wolff's objection to "lunches at 2*s.* 6*d.* each," Mr. White repeated that, if objection were taken by members of the Society to the item, the Council were prepared to give effect to their wishes.

Mr. GUTHRIE said that, in fairness to Mr. Wolff, it should be pointed out that his suggestion to the Council was that the allowance for travelling expenses should go up, and that the allowance for refreshments should go down. He was perfectly sure that the balance of difference would mean that the Society itself would be out of pocket.

Mr. WOLFF said he had never suggested that the allowance for travelling should be increased, for the simple reason that first class was the best class for railway journeys. So far as the loss of dignity alluded to by Mr. White was concerned, he thought members of the Council might easily arrange so that the cost of lunch at 2*s.* 6*d.* each could be covered. He certainly did put it that the Council should consider the whole question in the near future, convinced as he was that the bulk of the members of the Society do look a little curiously at the item.

Mr. PARRY expressed himself as very sorry that Mr. Wolff should once more have "let himself go" in "this ridiculous manner." Time after time, he said, Mr. Wolff had referred to the same item in a way that did not add one tiny bit of dignity to members of the Council, who were supposed to represent pharmacy in the United Kingdom on the highest executive body which pharmacy has. He did not think that members of the Society throughout the country were aware that at that moment members of the Council who travel from the provinces to London only got their simple railway fare, without any maintenance allowance whatsoever whilst engaged on that business. He was perfectly convinced that no association or other body he had ever addressed would be a party to asking or wishing any man to render services to pharmacy for nothing, or to be actually out of pocket, as he could prove himself to have been for many years past.

The PRESIDENT, in proposing that the annual statement of accounts and auditors' report be received, said it was extremely gratifying to him as President to find that the income of the Society was 29,000*l.*, as against 17,000*l.* for the previous year. It was also gratifying to him to find that the only item on which any question had been raised was that of the cost of refreshments. Members of the Council must realise the enormous amount of work which had been entailed upon the staff in keeping the accounts and in handling the vast sums of money which these involved. With reference to the point raised by Mr. Wolff, he had asked the question more than once at meetings which he attended throughout the country whether members of the Council should or should not receive their lunch, and invariably the unanimous vote had been that members of the Council should receive the best treatment it was possible for members of the Society to give them. That was his own opinion.

COUNCIL CANDIDATES.

The secretary reported that thirty-three nominations have been received for the seven vacant seats on the Council, and that the following nominees had expressed their willingness to accept office if elected :

Antcliffe, Herbert, Sheffield	Irvine, Malcolm M., Glasgow
Beswick, Harold E., Blackburn	Keith, Alexander Reid, London
Bilson, F. E., Bournemouth	Lloyd, Herbert O., Birmingham
Body, S. F., Westcliff-on-Sea	Melhuish, Andrew R., London
Cuff, Joshua H., Dover	Ridyard, Clement W., Codnor
Davis, Charles, Leamington	Rowell, Philip Foale, Exeter
Fouracre, Robert, London	Sparks, Percy, London
Fullerton, D. N., Manchester	Spence, George L. S., Aberdeen
Gilmour, John, Manchester	Todd, John, London
Hardy, Thomas, Maryport	Waring, Edwin S., Nottingham
Hines, Frank Gladstone, York	Young, John R., Warrington

The following, who had been nominated, had not expressed their willingness to accept office:

Atkins, Ernest A., London	Nightingale, H. R., Edinburgh
Evans, F. W., Cwmfelinfach	Ridley, Thomas, Carlisle
Fox, Thomas Bevan, London	Townley, Thomas W., Keswick
French, John E., Sittingbourne	Whitlock, W. H., Birmingham
Hobbs, A. E., Tunbridge Wells	Wride, Francis B., Southampton
Lloyd, Edward N., London	

AUDITORS.

The secretary reported that the following were nominated for election as auditors and had expressed their willingness to accept office if elected: G. B. Francis, J. F. Harrington, J. S. Hills, T. E. Lescher, and E. J. Millard.

MEMBERSHIP LISTS FOR CANDIDATES.

Mr. HINES pointed out that owing to the fact that there had been no Calendar issued for some years, there is at present no complete list of the names and addresses of the members existing to which recourse can be had by the candidates for the vacancies on the Council who may desire to prosecute a canvass. He thought it would be well if the Council afforded candidates all possible facilities to obtain information necessary for their purposes in this connection.

The SECRETARY replied that he had thought of the difficulty mentioned by Mr. Hines, and the course that had suggested itself to his mind was this. The St. Clement's Press printed the "Journal" every week and addressed a copy to each member. They had there an up-to-date list of the members, and his suggestion was that the Council should give him instructions to ask the St. Clement's Press what the charge would be for addressing an envelope to each member, or for supplying a full list of the members for the use of the candidates in galley form. The St. Clement's Press had already the whole list in type.

Mr. WOLFF was of opinion that, the Council having sanctioned the St. Clement's Press supplying candidates with what they required, the better way would be to allow them to make their own arrangements with the candidates. For example, one might require a postcard addressed to all the members, whilst another would issue two or three circulars to them. In view of the varying requirements of each of the candidates, he thought it would be well to allow the price for the work to be arranged as between the St. Clement's Press and the candidates themselves.

The SECRETARY replied that his desire was to help the candidates in every possible way, and he quite agreed, if the Council approved, that there was no objection at all to the list being available to candidates, who could make their own arrangements with the printers. At the same time, he thought it would be a convenience to tell them what the St. Clement's Press could do, making the same arrangement for all.

Mr. SKINNER held that the better plan would be for the candidates to do their business with the St. Clement's Press through the authorities at the Square. If they were to allow the list to be issued to anyone who applied for it, well, it could be worked for other purposes than the one for which its issue was intended, and he did not think they could allow such a thing. He did not think they should comply with any application for the list unless they had some guarantee that it was genuine.

The SECRETARY explained that his suggestion was that if application were made for the list it could only be submitted by the candidate himself, and the list would be supplied to no other one.

It was then agreed, on the proposition of the PRESIDENT, seconded by the VICE-PRESIDENT, that authority be given to the secretary to instruct the St. Clement's Press to supply candidates with the names and addresses of members of the Society, applications for these to be made through the office of the Society, and that the candidates be informed to that effect.

ELECTIONS AND RESTORATIONS.

It was agreed that sixty-six persons be elected members of the Society, that 203 be elected student-associates,

that twenty be restored to the Society, and that two be restored to the Register. The registrar reported that there had been 193 registrations of apprentices as students.

CORRESPONDENCE.

The secretary read a letter from Mr. J. Rutherford Hill, Secretary of the North British Branch, reporting that, acting under medical advice, Mr. A. Craig had given up the divisional secretaryship for Aberdeen. The members of the Society in Aberdeen had reluctantly accepted Mr. Craig's resignation, and the North British Executive, on their recommendation, nominated Mr. Charles Simpson, chemist, Aberdeen, for appointment to the vacancy. On the motion of the PRESIDENT, seconded by Mr. GUTHRIE, it was agreed that Mr. Simpson should be appointed.

A letter was read from the Joint Board of Scientific Studies acknowledging receipt of the Society's subscription to its funds.

It was reported by the secretary that a letter had been received from Sir Almroy FitzRoy, clerk to the Privy Council, concerning the sealed approval by the Privy Council of the by-laws respecting the admission of apothecaries' assistants to the Register of Chemists and Druggists. The secretary added that receipt of the sealed approval by the Privy Council meant that the by-law was now in order and was operative. He desired some instructions from the Council as to the method in which applications from apothecaries' assistants for admission to the Register could be received and dealt with. It seemed to him that the appropriate thing would be for the Council to refer the applications to some committee, and it was for the Council to consider whether they should appoint a special one to deal with them, or whether, as the matter involved a question of registration, they should not refer the applications to the Law Committee, and, if it was thought fit, add to that Committee one or two members who possessed special knowledge of the matter which the Committee would be called upon to consider. If it were considered necessary, the Council should set up a fresh committee, but as the Law Committee was not the busiest of the Committees the whole matter might be referred to them. They would have no power to register under the by-law, but only to investigate applications for admission and report to the Council. On the motion of Mr. NEATHERCOAT, seconded by Mr. CUFF, it was agreed that applications from apothecaries' assistants for admission as members of the Society should be referred to the Law Committee, and that it should have power to co-opt other members with special knowledge regarding the points involved in the applications. The VICE-PRESIDENT remarked that if any member of the Council desired to be a member of the Law Committee to deal specially with apothecaries' assistants he should intimate his wishes. Mr. WOLFF: The whole of the details of every individual application will come before the Council? The SECRETARY: I take it in committee. The whole of the details will come up in committee. Mr. WOLFF: Will come before the Council? The SECRETARY: Yes, in committee. Mr. HINES: Is the by-law approved by the Privy Council in the same form as we sent it? The SECRETARY: Yes. Mr. HINES: Without any alteration? The SECRETARY: Absolutely.

The secretary intimated receipt of two other letters from the clerk of the Privy Council, one covering sealed approval of the Council's altered regulation postponing the date on which the new syllabus will come into force, the other covering sealed approval of the appointment of examiners and special examiners.

A letter was read from the Huddersfield Chemists' Association asking the Council's recognition of the Huddersfield Technical College as a centre for teaching students of pharmacy. The secretary mentioned that the House Committee were at that moment considering the whole question of the teaching of pharmacy in Yorkshire in other towns from which application had been received similar to the one which had reached them from Huddersfield. On the motion of the PRESIDENT, seconded by the VICE-PRESIDENT, it was agreed that the Huddersfield letter should be referred to the House Committee.

THE JULY QUALIFYING EXAMINATION.

A petition signed by students attending the Victoria University, Manchester, Manchester College of Pharmacy, Liverpool College of Pharmacy, Leeds College of Pharmacy, and the Blackburn Technical School was submitted, praying that an examination centre be established at Manchester for the July examination (*C. & D.*, April 3, p. 73).

The Council discussed the petition in private, and ultimately the PRESIDENT announced that, having carefully and judicially considered the proposal relative to conducting the examination away from the principal centre, and reviewed the facts before them, the Council did not think it advisable that effect should be given to it. Looking at the whole question from every point of view, including the administrative, and considering the difficulties which presented themselves, every member around the table seemed to be of opinion that the proposed change could not be successfully carried into effect. On the other hand, the Council would, in a measure, try to minimise in every way they could the difficulties which stood in the way of young fellows in the districts mentioned coming up for examination purposes. They would endeavour to meet these candidates for examination in every possible way, in order that they might not be put to any more inconvenience than could be helped. Under all the circumstances, however, the Council felt justified in saying quite definitely that at the moment they could not see their way to accede to the request which the petition embodied.

Mr. HINES inquired if it would be possible to ask for hospitality for the candidates for examination on the occasion of their visit to London.

The VICE-PRESIDENT replied that no doubt many of them had relatives living in London.

FINANCE COMMITTEE.

The financial statement is summarised as follows : Receipts since the last meeting, including a balance of 4,367*l.* 4*s.* 7*d.*, amounted to 9,882*l.* 8*s.*, made up as follows : Sale of Registers, 17*l.* 12*s.*; penalties and costs, 38*l.* 5*s.*; "Journal" and publications, 54*l.* 1*s.* 8*d.*; registration-fees, 34*l.* 12*s.*; subscriptions, 2,013*l.* 18*s.*; examination-fees, 2,842*l.* 8*s.*; restoration-fees, 2*l.* 2*s.*; and dividends, 41*l.* 4*s.* 9*d.* After deducting payments amounting to 4,338*l.* 19*s.* 9*d.*, authorised at last meeting, and placing 4,000*l.* on deposit at bankers, there was a balance of 1,543*l.* 8*s.* 3*d.* The other balances were : Benevolent Fund (current account), 235*l.* 19*s.* 2*d.*; Benevolent Fund (donation account), 366*l.* 13*s.* 3*d.*; War Auxiliary Benevolent Fund, 805*l.* 10*s.*; Orphan Fund, 201*l.* 8*s.* 3*d.* The financial statement of the Local Associations Executive Committee for the period February 13 to March 20 showed an income of 727*l.* 14*s.* 3*d.*, and expenditure 339*l.* 11*s.* 11*d.* The report of the Finance Committee recommended the payment of accounts amounting to 3,074*l.* 1*s.* 1*d.*, and that the action of the secretary in making payment of various items amounting to 81*l.* 3*s.* be approved.

Mr. MELHUISH asked the treasurer if the question of making reservations for contingencies, to the urgency of which he directed the attention of the Council three months ago, had been dealt with by the Finance Committee. The need for a contingency fund had impressed itself more strongly in his mind than ever after he had looked over the annual statement of accounts they had received that morning. It was not his desire to embarrass the treasurer in any way, and if he could receive his assurance that the Finance Committee had the matter in hand he would be perfectly satisfied. They were aware that unless amounts were ear-marked for a specific purpose they had a tendency to dribble away, and it was in order that the Society should have a permanent fund to meet future contingencies that he urged the matter so strongly as he did.

The TREASURER (Mr. BILSON) replied that up to that date the Finance Committee had been enabled to put 4,000*l.* to deposit; and they hoped to lay aside 5,000*l.* for exigencies for each of the next three years.

Mr. MELHUISH expressed himself extremely glad to hear the treasurer's statement, but, with all due respect, submitted to him that the amounts referred to were to be placed to the credit of the General Fund. What he had in his mind was a special fund for contingencies, and he hoped his suggestion would meet the early consideration of the Finance Committee.

The report of the Finance Committee and statement of accounts were then received and adopted.

LOCAL ASSOCIATIONS EXECUTIVE COMMITTEE.

The report of this Committee expressed approval of the chairman's action in asking the associations to pass a resolution to the effect that until the result of the test case is known no action should be taken regarding the formation of a trade union of master pharmacists, and that the L.A.E. be asked to take any necessary steps immediately the decision in the test case has been obtained. The Southport Association had since written that they accepted the terms of the chairman's circular, but pointed out that if neither the Society nor the L.A.E. undertake the protection of trading interests when the decision in the test case is known, then a new organisation should be formed. The Halifax Association had written suggesting the establishment of a committee comprising the Proprietary Articles Trade Association, the L.A.E., Co-operative Stores, multiple shops, and representatives of wholesalers and retailers, to deal with the question of unremunerative patent medicines. The secretary was instructed to write, pointing out that the L.A.E. fully support the movement in respect of unremunerative patents, but thought it desirable to wait until the outcome of the negotiations with the Chancellor of the Exchequer regarding the patent-medicine duty was known. The Committee directed the secretary to get into communication with the Chancellor of the Exchequer, supporting the proposals of the P.A.T.A. regarding the patent-medicine duty. The report of the deputation appointed to wait upon Burroughs Wellcome & Co. was received and adopted. The Committee endorsed the arrangement made with the firm, which provides for an increase of 10 per cent. in the retail prices and free packages, and expressed the hope that the result to the firm from this offer will indicate the value of complete co-operation with chemists.

The report was adopted without discussion.

BENEVOLENT FUNDS.

The only recommendation in the report of the Benevolent Fund Committee of interest was that the Council increase the annual grant payable in respect of the maintenance of the Society's orphans in the London Orphan School from 40*l.* per annum to 55*l.* per annum, and this was unanimously agreed to.

The report of the War Auxiliary Benevolent Fund Committee recommended a number of grants, and it was unanimously adopted.

THE TEST CASE.

The secretary intimated that although the item was not on the agenda, because notification had not been received when it was issued, it might interest members of the Council to know that he had received intimation from the solicitors that the writ which their colleague Mr. Jenkin had served upon them had been issued. The case would now come before the Court in due course.

SCHOOL PRIZES.

The secretary reported that he had received a report from the Dean on the examination for the advanced students, and the following awards were recommended :

Botany.—Silver Medal, Kathleen R. Hutchin; Certificate of Honour, A. Muriel Saunders, David Page. *Chemistry*.—Silver Medal, B. W. Melhuish; Certificate of Honour, A. Muriel Saunders, David Page and Cyril J. Eastland equal. *Practical Chemistry*.—Silver Medal, Cyril Jack Eastland; Certificate of Honour, B. W. Melhuish, David Page. *Materia Medica*.—Silver Medal, Cyril J. Eastland; Certificate of Honour, Kathleen R. Hutchin and A. Muriel Saunders (equal), Beatrice Sharples.

LIBRARY COMMITTEE.

The report of the Library, Museum, and School Committee stated that, in view of the resignation of Dr. Small, on taking up his appointment as Professor of Botany in Belfast University, the Committee had arranged for Mr. T. E. Wallis, B.Sc., to lecture in botany and conduct the practical work hitherto carried on by Dr. Small. This necessitated the appointment of an assistant demonstrator on the pharmacy side, and it was recommended that Miss A. M. Saunders be appointed an additional demonstrator at a salary of £150. a year. The report stated that the Committee had received notification from the Grants Committee of 1,120 men who had to be allocated for a nine-months' course in October next. It was anticipated that that week's list would bring the number up to 1,200, and before June 30, the date at present fixed as the last for receiving applications, there might well be 1,500. Assuming that there were no more vacancies than those available last year, there would be no room in the schools for even the number they now had to allocate. The Committee had been in communication with the Appointments Department, which had agreed that in the case of any future grants the commencement of the course should be postponed until October 1921. The Committee found that it will be necessary to make arrangements for taking in London eighty candidates a day for both parts of the July examination. In order to do so it would be necessary to make certain alterations in the dispensing and pharmacy laboratories of the School. They therefore recommended that they be authorised to proceed with the necessary fitting of the dispensing-room and pharmacy laboratory in the School of Pharmacy to enable the rooms to be used for the Qualifying examination, and that the Committee be further empowered to obtain the necessary bottles, apparatus, and materials for this purpose.

The report was adopted without discussion.

This was all the public business.

Financial Statements.

General Fund Account.

Expenditure (two years compared).

	1918	1919
	£ s. d.	£ s. d.
Carriage of Books and Parcels	7 19 5	17 1
Certificates of Death	25 9 9	26 13 3
Examinations: Minor and Major—		
Fees to Examiners and Travelling Expenses—		
England and Wales	384 17 10	884 16 8
Scotland	166 2 6	321 10 9
Refreshments—England and Wales	20 8 9	85 14 7
Scotland	18 0 0	28 2 11
Apparatus, Drugs, Chemicals, Printing, and sundry charges—		
England and Wales	188 8 11	660 0 9
Scotland	72 16 4	93 14 0
[Totals: 1918, £850 14s. 4d.; 1919, £2,073 19s. 8d.]		
Gas, Electric Light, Water, Coal, Cleaning, Materials, etc.	338 6 2	506 12 0
House Servants—Wages	459 8 0	540 9 0
"Pharmaceutical Journal"	3,123 10 6	3,291 6 3
Library:—		
Librarian's Salary	146 0 0	0 0 0
Assistant-Librarian's Salary	0 0 0	80 0 0
Purchase and Binding of Books, etc.	33 19 9	38 2 4
[Totals: 1918, £179 19s. 9d.; 1919, £118 2s. 4d.]		
Law costs	360 6 1	476 1 8
Museum:		
Curator's Salary	250 0 0	250 0 0
Assistant's Wages and Sundry Expenses for Bottles, etc.	109 12 9	124 11 7
[Totals: 1918, £359 12s. 9d.; 1919, £374 11s. 7d.]		
North British Branch:		
Resident Secretary in Scotland and Clerks—Salaries	647 0 8	732 14 0
Taxes and Insurance	94 8 11	118 16 3
Members of Executive—Traveling Expenses, etc.	81 11 1	250 5 0
Fuel, Light, Water, Cleaning, Service, and Miscellaneous Expenses	371 12 5	576 12 9
[Totals: 1918, £1,194 13s. 1d.; 1919, £1,678 8s.]		

	1918	1919
	£ s. d.	£ s. d.
Pension	400 0 0	400 0 0
Pharmaceutical Meetings	26 13 3	0 0 0
Postage:—General	231 17 10	389 13 10
"Journal"	1,179 15 7	1,407 13 1
[Totals: 1918, £1,411 13s. 5d.; 1919, £1,797 6s. 11d.]		
Register of Chemists and Druggists	92 10 9	175 3 7
Rent, Taxes and Insurance	1,254 7 2	905 17 4
Premium on Leasehold Redemption Policies	128 2 6	128 2 6
Repairs, Alterations, Electric Service and Fittings	176 12 9	510 19 4
Salaries:—Secretary and Registrar	456 5 0	600 0 0
Clerks	1,993 19 2	3,220 19 4
[Totals: 1918, £2,450 4s. 2d.; 1919, £3,820 19s. 4d.]		
School of Pharmacy and Research Laboratory:—		
Stipends of Professors	1,000 0 0	700 0 0
Lecturer, Assistant Lecturer, Demonstrators, and Wages of Porters	722 5 6	1,758 10 2
Apparatus, Chemicals, Specimens for Lecture Classes, Prize Medals, Certificates, Printing and Posting Prospects	512 15 10	1,210 5 3
[Totals: 1918, £2,235 1s. 4d.; 1919, £3,668 15s. 5d.]		
Bacteriological Classes	55 6 11	9 10 1
Stationery, Printing, and Office Expenses	639 4 6	1,482 13 8
Calendar of the Society	255 4 0	59 6 6
Sundries	12 1 2	16 0 0
Cost of conducting Prize and Scholarships Examinations	14 19 9	33 0 0
Medals and Certificates—Council and Herbarium Competitions	7 6 6	7 4 3
Board of Scientific Societies	0 0 0	10 10 0
British Federation of Medical and Allied Societies	0 0 0	15 15 0
Travelling Expenses and Refreshments for Council, Officers, etc.	958 16 6	1,189 12 6
Local Associations and Parliamentary Expenses: Meetings, etc.	201 17 6	468 4 10
Telephone Service	30 0 7	28 6 4
Fees to Chartered Accountant	52 10 0	84 0 0
Staff Provident Fund	182 14 2	251 12 4
Annual Table of Constants, etc.	5 5 0	0 0 0
Pharmaceutical Press Publications	0 0 0	21 14 6
Furniture	0 0 0	28 7 8
Inspection of Schools of Pharmacy	0 0 0	289 11 11
Rooms for Meetings	0 0 0	32 12 1
Balances added to Accumulated Funds	0 0 0	3,901 5 7
	£17,490 11 9	£29,053 12 9
Income (two years compared).		
By Examination-fees:—	£ s. d.	£ s. d.
770 Minor (364 in '18)	2,257 13 0	6,171 3 0
17 Major (22 in '18)	63 0 0	49 7 0
3,712 Registration-fees as Students (490 in '18)	1,029 0 0	7,795 4 0
Fees for Restoration to Register	23 2 0	23 2 0
Certificates of Qualification	27 4 0	24 0 0
Registration as Chemist and Druggist	0 0 0	12 12 0
[Totals: 1918, £3,399 19s.; 1919, £14,075 8s.]		
Interest on Investments:—		
Dividend on Port of London Authority Stock	60 19 0	58 3 8
Dividend on Water Board Stock	41 2 2	39 9 10
On Deposit at Banker's	29 16 7	9 3 2
Dividend on War Stock	180 12 0	173 18 2
	312 9 9	280 14 10
Less Interest on Loans ..	147 3 8	85 5 8
	165 6 1	195 9 2
Ground rents	391 17 6	385 0 0
Net Rent of 15 Bloomsbury Square	138 4 6	130 3 0
[Totals: 1918, £695 8s. 1d.; 1919, £710 17s. 2d.]		
School-fees	919 7 0	2,843 12 0
Grant from the Board of Education	208 18 0	587 8 0
Subscriptions:—		
Members (8,627)	8,591 2 0	9,058 7 0
[406 Subscriptions remitted.]		
Student Associates (2,258)	277 4 0	1,139 15 6
[127 Subscriptions remitted.]		
Life Subscriptions	462 0 0	871 10 0
[Totals: 1918, £9,330 6s.; 1919, £11,069 12s. 6d.]		

	1918 £ s. d.	1919 £ s. d.
"The Chemists' Annual" ..	2 0 0	0 0 0
Pharmaceutical Press Publications ..	47 19 8	0 0 0
British Pharmaceutical Codex ..	155 17 9	57 12 6
Pharmaceutical Pocket Book ..	66 5 7	45 2 7
Legacy—Samuel Negus ..	0 0 0	24 0 0
	£17,490 11 9	£29,053 12 9

The balance-sheet of the General Fund and the accounts of the Benevolent Fund, the War Auxiliary Benevolent Fund, the Orphan Fund, Scholarships Funds, and Waterall Legacy are given, and, in addition, the balance-sheet of the Local Associations Executive. From the last-named it appears that the expenses of the Executive were £3681. 10s. 11d., and those of the Checking Bureau 2,3581. 3s. 10d., making, together with a balance of 1,5241. 8s. 4d., a total of 5,251l. 3s. 1d.; levies on Pharmaceutical Committees amounted to 5,2491. 4s., and interest on deposit to 1l. 19s. 1d.

Examination in London.

The following persons were granted Major certificates at the recent examination held in London:

Aked, E. Maud	Melhuish, Barradale W.
Eastland, Cyril Jack	Page, David
Harrison, Kathleen W.	Saunders, A. Muriel
Howes, Harold	Sharples, Beatrice
Kemp, R. Howard	Todd, F. John
King, Katherine M.	Woodhead, George K.

Coming Events.

Monday, April 12.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 5 P.M. General meeting.
Chemists' Exhibition, Northampton Polytechnic Institute, St. John Street, London, E.C. Daily until April 16, from 11 A.M. to 9 P.M. Tickets free of charge from the Secretary, 194-200 Bishopsgate, London, E.C.

Society of Chemical Industry, Chemical Society's Rooms, Burlington House, Piccadilly, London, W., at 8 P.M. Papers on "The Fertilising Value of Sewage Sludges," by Winifred E. Brenchley, D.Sc., and E. Hannaford Richards, B.Sc.; "A New Test for Incorporation," by E. P. Perman, D.Sc.; "Experiments on Decrepitation," by T. Martin Lowry, F.R.S., and L. P. McHatton, A.R.C.S.

Tuesday, April 13.

Ealing Pharmacists' Association, Eden's Restaurant, High Street, Ealing, London, W., at 8.30 P.M. Mr. Hugo Wolff on "Bread and Butter." Assistants and apprentices specially invited.

Wednesday, April 14.

Manchester Pharmaceutical Association, Chess Club Room, 65 Market Street. Annual meeting.

Rexall Chemists, Cannon Street Hotel, London, E.C., at 2 P.M. Address by Mr. Louis K. Liggett. Also on Thursday.

Chemists' Dental Society, Chemists' Exhibition, Northampton Institute, London, E.C., at 7.30 P.M. Open meeting to consider "Legislation." All dental chemists invited.

London (Western) Pharmacists' Association, Pinoli's Restaurant, Wardour Street, London, W., at 7 P.M. Whist-drive and supper. Morning dress. Tickets (6s. each) from Messrs. B. R. Wilkinson, 23 Cromwell Place, London, S.W. 7, and W. Browne, 1 Avenue Parade, Finchley Road, London, N.W. 3.

Thursday, April 15.

Local Federation (London Branch), Connaught Rooms, Great Queen Street, London, W.C., at 6.30 P.M. Annual dinner. Tickets (12s. 6d. each) from the Secretary, Mr. G. W. Evans, 239 Hammersmith Road, London, W. (Evening dress.)

Sheffield Pharmaceutical Students' Association, Fancy-dress ball. Prizes will be offered. Tickets (4s. 6d. single, 8s. double, including supper) from Mr. I. Best, 55 Brunswick Street, or Mr. G. H. Needham, D.S.M., 105 Barkers' Pool.

Friday, April 16.

Amalgamated Society of Pharmacists, Drug and Chemical Workers (Public Pharmacists' Section), Progressive Pharmacy Club, Arundel Hotel, Strand, London, W.C., at 7.45 P.M. Meeting.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Mr. J. A. McClelland, F.R.S., D.Sc., on "Ions and Nuclei."

Photographic Fair, Horticultural Hall, Westminster, London, S.W. Open from 11 A.M. to 9 P.M., weekdays, until April 24. Admission 1s. 6d.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Portsmouth.—At a meeting of the Insurance Committee, on March 25, the Finance Sub-Committee submitted the following statistics with reference to the provision of drugs to insured persons for 1919, 1918, and 1917:

	1917	1918	1919
Total cost ...	2,854l. 7s. 8d.	3,899l. 8s. 1d.	4,281l.
No. of prescripts. ...	120,284	137,667	134,721
Average ingredient price, per prescrpn.	2.74d.	3.38d.	3.80d.
Average dispensing fee, per prescrpn....	2.96d.	3.41d.	3.84d.
Average total cost per insured person	13.22d.	18d.	18.87d.
Cost of sanatorium benefit prescrpts...	74l. 7s. 11d.	148l. 4s. 6d.	65l. 5s. 10d.

It was reported that there were thirty-seven chemists, with fifty-five pharmacies, under agreement with the Committee.

SCOTLAND.

THE CENTRAL CHECKING BUREAU of the Drug Accounts Committee (Scotland) has issued the following information in regard to the remuneration for 1920: Although the Scottish panel chemists have, from the inception of the Insurance Act, adopted a National Drug Tariff and the principle of collective bargaining, the Drug Fund of each Committee was allocated quite independently. This year, however, there will be a "Special Drug Fund," from which, under certain conditions, a surplus in one area will be used to meet a deficiency in another. The following statement shows the average price per form in Scotland for January during the years 1915 to 1920:

January	Burghs	Counties	Scotland
1915	9.34d.	9.76d.	9.48d.
1916	10.48d.	10.99d.	10.66d.
1917	9.48d.	9.99d.	9.66d.
1918	10.98d.	11.67d.	11.22d.
1919	12.11d.	12.97d.	12.41d.
1920	16.11d.	16.92d.	16.40d.

While the average price per form for January 1920 is 16.11d., the average per form is 19.71d. in the burgh of Inverness and 12.28d. in the burgh of Kirkcaldy. With regard to the counties, while the average price per form for January 1920 is 16.92d., in the county of Zetland the average is 23.15d., and 12.91d. in the county of Orkney. When considering the average price per form due regard must be had to the frequency of prescribing. The following comparative statement for 1915 to 1920 shows the total amount paid to the chemists for January dispensing:

January	Burghs	Counties	Scotland
	£ s. d.	£ s. d.	£ s. d.
1915	6,220 17 11½	3,355 14 1	9,576 12 0½
1916	4,465 15 4	2,872 6 10½	7,138 2 2½
1917	4,306 13 10	2,558 3 3½	6,864 17 1½
1918	4,635 3 3½	2,622 16 5½	7,257 19 9
1919	5,211 9 9	2,979 17 5	8,191 7 2
1920	8,323 2 9½	4,786 4 3½	13,109 7 1

The total drug bill for 1920 will probably amount to 115,270l.

WHAT THE REPORTER UNDERSTOOD.—In a London suburban paper's report of a recent inquest Dr. Spilsbury, the well-known pathologist, was made to say that "Eastern Syrup contained strichnine, quinine, phosphorine, and lime." Mrs. Malaprop shall supply the comment: "I'm completely analysed!"

Festivities.

Burroughs Wellcome & Co.'s Whist-drive.

A WHIST-DRIVE, organised by the employés' entertainment committee of Burroughs Wellcome & Co., was held at the Veterans' Club, Holborn, London, on March 31. A large number of members of the London staff and friends participated, and there was keen competition for the prizes. Votes of thanks to the organisers concluded an enjoyable evening.

Cartwright's Social.

THE Needlework Society connected with W. B. Cartwright, Ltd., Rawdon, celebrated the close of their winter session on March 26, with an exhibition of work. The handicraft of the members was highly commended by the visitors. Tea was provided, and there was also a short musical programme. In the evening a whist-drive and dance was held, about 250 attending. Prizes were presented by the directors, Messrs. Rennie and Tomlinson.

John Richardson & Co.'s Social.

THE employés of John Richardson & Co. (Leicester), Ltd., held a successful dance and social on April 1 at the Shaftesbury Hall, Leicester. A capital musical entertainment was provided by Misses Mabel Bonson, E. M. Skelton, and Vera Tailby; Messrs. W. B. Thomson, A. Skinner, and Arthur Allen. Another interesting feature of the programme was the ladies' and gentlemen's beauty competition, which caused much merriment. Miss Drusilla Thomson acted as accompanist.

Belfast Chemists' Whist-drive.

ON the invitation of the President (Mr. F. Storey) and committee of the Chemists' and Druggists' Society of Ireland, a whist-drive was held on March 31 in the Society's Rooms, 11 Waring Street, Belfast. Mr. Storey acted as director, and Mr. Frackleton saw to the comfort of the guests. Tea was provided during an interval. At the close Mrs. Martin presented the prizes to the successful competitors: *Gentlemen*—(1) Mr. R. A. Jamison (149); (2) Mr. A. Scott (146); (*Booby*) Mr. A. E. Davis. *Ladies*—(1) Miss Edith Martin (145); (2) Mrs. Kells (144).

Boots' (Birmingham) Dance.

THE first annual gathering of the Social Club of Boots, Ltd., was held on March 24 at the Grand Hotel, Birmingham. The entertainment, which took the form of a supper and fancy-dress dance, was enjoyed by over 250 members and their friends. Prizes were given by Sir Jesse Boot for the best fancy dress. Mr. W. H. Whittock and Miss Fletcher (Broad Street branch) were awarded the first prize; Miss Ward (Colmore Row branch) winning the second. During the supper a telegram from Sir Jesse Boot expressing good wishes was read by Mr. Whittock (director), who replied to the toast of "The Firm," given by Mr. Moss. Mr. White replied to the toast of "The Visitors," given by Mr. Johnson.

Glasgow Pharmacy Athletic Club.

AN enjoyable whist-drive and dance was held under the joint direction of the Glasgow and West of Scotland Chemists' Association and the Pharmacy Club in the Charing Cross Halls on March 21. The company, numbering 330, was welcomed by Mr. W. Wood Wilson (President), and Mrs. Wood Wilson presented the prizes, the gifts of Mr. John Greig (Allen & Hanburys, Ltd.). The recipients were:—*Ladies*: (1) Mrs. Whitelaw, (2) Miss Grieve, (3) Miss Osbourne. The "booby" prize went to Miss G. Nicolson. *Gentlemen*: (1) Mr. Abbott, (2) Mr. Auld, (3) Mr. Boyce, after a tie with Mr. Dow. Mr. McGeorge received the "booby" prize in the gentlemen's section. Dancing was then engaged in, Messrs. John Bell, P. Duff, and A. W. Calder acting as M.C.s. The function was voted a great success, and a service of special cars was arranged for by the committee to take the company home.

Birmingham Students' Party.

AT the Imperial Hotel, Temple Street, Birmingham, on March 30, the students of the newly established Municipal Pharmacy School, Suffolk Street, held a smoking-concert and musical evening. Mr. Berry, Ph.C., F.C.S., was chairman, and among those present were Messrs. Lloyd, F. Smith, Knowles, Buckingham, Rigg, and F. H. Alcock. Colonel Ward, Major Phillips, and Mr. Osmond, of the Appointments Department of the Ministry of Labour, also attended. A splendid programme was gone through. Mr. Groves, M.A., Professor of Botany, narrated a humorous tale, and the accompanist on the piano was Mr. Leonard Brown. Others who contributed included Messrs. Rushbrooke (the assistant demonstrator of the school), Danns, Welsh, Woodcock, Leigh, Cook, Morgan, and Knowles. During the interval a racy speech was made by Major Phillips, congratulating the students on making such a good start at the school, and referring to the help received from Mr. H. O. Lloyd and Mr. Fred. Smith with regard to their grants in aid of their studies. He also hoped that they would do their best to secure the return of the former as a member of the Council of the Pharmaceutical Society.—In the afternoon of the same day an Inter-students' football match was played on the Handsworth Grammar School ground.

Dewsbury Chemists' Dinner.

THE Dewsbury Chemists' Association held their annual dinner at the Man and Saddle Hotel, Dewsbury, on March 25. There was a good attendance, and a most enjoyable evening was spent. Mr. G. Walker (Birkenshaw) presided. The toast of "The Pharmaceutical Society of Great Britain" was given by Mr. R. Broadhead, Batley. The principal argument against the payment of members of the Pharmaceutical Council (which he proposed fifteen years ago) was that they were gentlemen and should not be lowered to the level of members of Parliament. (Laughter.) The toast was responded to by Messrs. F. Pilkington Sargeant (Leeds) and Frank G. Hines (York). Mr. Sargeant, referring to the large numbers of pharmacy students, said their absorption into the craft presented a disquieting problem. The Government was assisting pharmaceutical students to the extent of half-a-million sterling—a vast sum in proportion to the size of the craft. The toast of "Kindred Associations" was proposed by Mr. S. N. Pickard (Ossett), and responded to by delegates from Leeds, Halifax, and Harrogate; and the toast of "The Dewsbury Chemists' Association" was given by Mr. F. Stewart Watts (Dewsbury), and responded to by Mr. R. Gledhill. Mr. Edward Broadhead, son of Mr. R. Broadhead, gave a recitation.

Manchester Chemists' Masonic Dinner.

THE Manchester Pharmacists' Masonic Association held a very successful inaugural dinner on March 31, at which twenty-seven brethren were present. Bro. A. C. Vallance, P.M., P.P.G.S.W., was in the chair, supported by Bro. J. F. V. Field, P.M., P.P.S.G.D., as Senior Warden, and Bro. H. Thompson, P.M., as Junior Warden. Bro. C. H. Griffiths, P.M., P.P.G.D.C., was director of ceremonies, and Bro. A. Newton hon. secretary. After the Royal and Masonic toasts the chairman's address was given. Bro. C. H. Griffiths spoke on "Ourselves," and said the Association was the pioneer of a movement which would doubtless be followed in other districts. Bro. W. H. Veno gave the toast of "The Chairman," Bro. A. C. Vallance, coupled with the organising secretary, Bro. A. Newton, and enlivened his speech with humorous anecdotes. A short discussion on future meetings resulted in September being fixed for the next assembly, and the committee (Bros. Field, Thompson, and Newton, the latter being appointed hon. secretary) were authorised to make all necessary arrangements. The remainder of the evening, with the assistance of Bro. A. C. Vallance, Bros. H. M. Ashton, W. B. Rushton, G. T. McDougall, and A. W. Moore, was enjoyed in the manner well known to the fraternity, and the celebration ended with "Auld Lang Syne." The design on the front of the menu-card incorporated the symbols of Freemasonry and pharmacy.

Associations' Winter Session.

Belfast.—A meeting of the committee of the Chemists' and Druggists' Society of Ireland was held on March 31, in the Society's Rooms, 11 Waring Street, Belfast, the President (Mr. Fred Storey) in the chair. The following committees for the year were appointed, with the President and hon. secretary, Mr. S. Nevin, *ex-officio*. Law—Messrs. S. Suffern, W. J. Rankin, J. D. Carse, S. Gibson, J.P., and E. Roberts. Finance—Messrs. S. Gibson, J.P., T. Sandford, W. J. Rankin, J. Frackleton, and F. T. Smith, J.P. Special Propaganda Committee—Messrs. F. T. Smith, J.P., S. Suffern, T. Sandford, and W. J. Rankin. Social and Rooms Committee—Messrs. J. Moffet, W. Watson, F. Johnson, J. Frackleton, and C. B. Abernethy.

Bournemouth.—The Bournemouth Pharmaceutical Association met on March 26, the President (Mr. H. J. Martin) in the chair, when it was decided to support a resolution as suggested by the Local Associations Executive. The President, Mr. Bingham (chairman of the Pharmaceutical Committee), and the secretary were deputed to represent the Association at the forthcoming Conference in Bloomsbury Square, London, on April 14. The secretary was instructed to thank Parke, Davis & Co. for sending Dr. J. Stanley White to give his lecture. The following resolution was sent to the Proprietary Articles Trade Association: "That this Association protests very strongly against the present custom of wholesale houses in charging higher prices for some P.A.T.A. articles than the fixed P.A.T.A. price, and that this Association considers that no alteration should have been made to any prices without first consulting the retailer."

Dublin.—A committee-meeting of the Dublin Retail Drug Association was held on March 24. Mr. D. M. Watson (President) in the chair. The following were also present: Dr. J. A. Walsh, Messrs. John Smith, G. A. McLean Lee, W. F. Ellis, Geo. Brown, Robt. Mellon, Victor E. Hanna, and Robert J. Kidney (secretary). Mr. D. Walsh, Midleton, co. Cork, was elected a member. The secretary was directed to forward copies of suggestion sheets to all members, who are invited to notify the Association of any changes in regard to prices, etc., that come before them.

Public Pharmacists.—The Public Pharmacists' Association held a meeting on March 31 at St. Bride Institute, London, Mr. J. L. P. Hollingworth in the chair, at which a lecture was given by Dr. S. Wyard, M.D., M.R.C.P., on *Pathological Specimens and their Preparation*. The speaker gave a general outline of the work in the pathological laboratory, and made special reference to the various staining solutions, their method of preparation, and the manner in which they acted. The lecturer afterwards replied to questions.

Southport.—A meeting of the Southport Pharmacists' Association was held on March 31 at the Queen's Hotel, when Dr. White (Parke, Davis & Co., London) gave his interesting lecture on *Organotherapy*. Invitations were extended to medical gentlemen and ladies, dental surgeons, as well as to pharmacists, and there was an attendance of about 120. Dr. G. R. Anderson, F.R.C.S., was in the chair, and he was supported by Mr. H. Barton (President of the Southport Pharmacists' Association) and Mr. W. H. Smith (secretary). Dr. White's lecture was much appreciated.

Wolverhampton.—The annual meeting of the Wolverhampton Chemists' Association was held on March 30, when the following officers were elected: President, Mr. C. M. Warner; Vice-President, Mr. Hagyard; Treasurer, Mr. S. Phillips; Secretary, Mr. J. H. Coleman. Messrs. Dunn, Bowdler, Gibson, Marlow, and M. R. Warner were re-elected as the Committee. The annual report and statement of accounts were adopted, and 3*l.* 3*s.* was voted to the Benevolent Fund. A resolution to increase the subscription was withdrawn. The pricing committee, consisting of the President, Messrs. Bowdler, Scholefield, and Trotter, were re-

appointed. The secretary was instructed to write to the local Parliamentary representatives, asking their support of the Early Closing Bill, and to press for the 3*d.* patent-medicine stamp to cover 1*s.* 6*d.* articles. A suggestion to affiliate with the Wolverhampton Chamber of Commerce was deferred till next meeting.

Organising the Drug-trade.

Drug Union Meetings.

THE Bradford branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers met on March 29, Mr. G. H. Etchells presiding. Mr. Ingham, the Bradford delegate to the general meeting of the Union in London, reported on the proceedings on that occasion.

N.A.C.A. Meetings.

A MEETING of the Birmingham and Midland Branch of the National Association of Chemists' Assistants was held on March 25 to consider amalgamation with the Amalgamated Society of Pharmacists, Drug and Chemical Workers and the draft of new constitution and rules. The formation of a new union, including the retail and wholesale, under the title of "The National Drug and Chemical Union," was agreed to.

THE annual conference of the National Association of Chemists' Assistants was held on April 5 at the Victoria Hotel, Manchester, Mr. G. S. T. Livesey (President) in the chair. The President sketched the history of recent negotiations, and appealed for support to the assistant candidates in the coming Pharmaceutical Council elections. After a satisfactory balance-sheet had been presented by the treasurer, and the secretary had given his report, the new draft constitution was considered. The resolutions in favour of amalgamation with the Amalgamated Society of Pharmacists, Drug and Chemical Workers to form the National Drug and Chemical Union were then carried, and the officers and executive were re-elected.

Shop Assistants' Union.

At the conference of the National Amalgamated Union of Shop Assistants, Warehousemen and Clerks at Glasgow, on April 5, there was a heated discussion on the proposal to unite with the Amalgamated Union of Co-operative Employés and the National Warehouse and General Workers' Union. This proposal was recently submitted to a committee. The majority declared against amalgamation, but recommended that negotiations be reopened with the Amalgamated Union of Co-operative Employés only. The minority report favoured amalgamation, and suggested that a ballot should be taken. The minority report was carried with enthusiasm. Mr. N. S. Beaton (Edinburgh) was elected President, and Mr. J. Turner (Islington) was re-elected as general secretary.

General Workers' Union.

A MEETING of the Pharmacists' and Assistants' section (Newcastle-on-Tyne branch) of the National Warehouse and General Workers' Union was held on March 25 in North Shields. Addresses were given by Mr. Burns, chemist and druggist (chairman), and Mr. J. C. Swanton (organiser), who stated that organisation was now complete, and branches had been established throughout the Tyneside area.—A further meeting was held in Newcastle-on-Tyne on March 30, at which the chairman outlined the national programme, and after certain alterations had been made the meeting endorsed the recommendations. The programme included a forty-four hour week, a minimum age for wage scale covering apprentices, qualified and unqualified assistants (both male and female), the total abolition of radius agreements, the adoption of apprentice limitation on the lines of the Irish settlement, and concessions to managers. Mr. E. Bennett and Mr. F. Harle, chemist and druggist, were co-opted to the committee, and the appointment of the chairman and secretary (Mr. W. G. Gibson, M.P.S.) as delegates to the Trades and Labour Council was confirmed.

Trade Report.

42 Cannon Street, E.C. 4, April 8.

THE markets having been closed during the greater portion of the period covered by this report, there is little of interest to record. The ebb and flow of the political situation in Germany continues to be a disturbing factor in business, as there is no foreseeing what developments may follow. The improvement in the American exchange (touching \$4.02 $\frac{1}{2}$ to the pound at one period of the week) should tend to bring about a decline, particularly in crude drugs and heavy chemicals. The Dutch exchange is also expected shortly to move in favour of this country, so that there is a possibility of products from this source being cheaper. There have also been sharp movements in the French and Italian exchanges, and new low records have been created. The few price changes that have occurred in chemicals include an advance in atropine, hypophosphites, and citrates. Strychnine is very firm and scarce, makers finding it difficult to cope with the business. Refined camphor is flat and lower all round; oil of Japanese mint is also cheaper. Cod-liver oil is weak, in view of the good yield and slack demand. Cream of tartar is slow of sale, but very firm; the demand for citric acid has fallen off somewhat, but prices are firm; tartaric-acid powder is easier inclined. Lemon and bergamot oils are a trifle weaker. Shellac is lower for second quality of Orange. Among spices, pepper and cloves are weaker; Jamaica ginger is still advancing, as it is anticipated that the bulk of the new crop will go direct to America.

Higher	Firmer	Easier	Lower
Atropine	Citric acid	Albumen	Camphor
Citrates	Cream of tartar	Bergamot oil	(J.p. ret. slabs and Eng. ref.)
Coca-leaves (Amst. auction)	Ginger (J.p.)	Caraway-seed	Cassia lignea
Ginger (Jam.)	Soda hypo-sulphite	Cascara sagrada	Cloves (Zan.)
Hypophosphites		Egg products	Eserine
Jalap resin		Farina	Linseed oil
Soda acetate		Lemon oil	Phthalic acid
Soda nitrate		Mint oil (J.p.)	Shellac
Soda phosphate		Pepper	Turpentine
		Wax, veget. (J.p.)	

The Drug Sales will be resumed next Thursday, April 15.

Cablegrams.

BERGEN, March 31.—The catch of cod amounts to 17,111,000, against 12,079,000 at the corresponding date of last year; and the yield of steam-refined oil is 25,188 barrels, against 12,674 barrels. Market is firm.

BERGEN, April 7.—The catch of cod amounts to 21,100,000, against 14,200,000 at the corresponding date of last year, while the yield of oil is 33,286 barrels, against 19,318 barrels at the same date of 1919. Market is quieter.

NEW YORK, April 7.—Business is fair. Strychnine and salts have advanced 15c. per oz. Mercury is dearer at \$102 per bottle. Acetphenetidin (phenacetin) is lower at \$2.60, and acetanilide has advanced to 70c. per lb. Podophyllum-root (mandrake) is lower at 43c. per lb. Senega has advanced to \$2.40, and short buchu is again higher by 25c. per lb. at \$4.00.

ACETANILIDE is steady at from 4s. 4d. to 4s. 6d. per lb. for powder or crystals.

ACETONE is firm, the value of B.G.S. in drums being about 92l. per ton.

AGAR-AGAR is steady, No. 1 Kobe strip offering on the spot at 3s. 3d. per lb. and No. 2 Yokohama at 3s. 1d. per lb. The exports from Japan during December 1919 amounted to 114,861 kin, valued at 173,478 yen. During

the twelve months ended December 31 they were as follows:

To	1917	1918	1919
China	693,387	184,723	391,991
Hong-Kong ...	275,799	119,742	255,281
British India ...	52,669	19,643	45,750
Straits Settlements	114,675	74,181	80,798
Dutch India ...	239,143	266,270	184,393
Philippine Islands	35,208	19,564	22,138
Great Britain ...	226,244	1,595,260	61,810
United States ...	257,454	155,286	296,478
Other Countries ...	212,363	204,487	168,515

Kin...	2,106,942	2,639,456	1,507,154
Yen...	1,954,983	2,969,311	2,053,071

ALBUMEN is a trifle easier, prime Chinese hen offering at 5s. 11d., afloat at 6s., and April-June shipment at 6s. 2d. per lb. c.i.f.

ANTIMONY.—We hear of a parcel of Chinese crude of 80 tons (running 71 to 72 per cent.) in cases, offering at about 61l. 10s. per ton c.i.f. London for this month's delivery. In the present very bare state of the market, this material should find buyers easily enough. There is no alteration in regulus, which keeps firm at 72l. to 75l. for English.

ASPIRIN is firm, makers quoting from 6s. 6d. to 6s. 9d. per lb., according to quantity; and second-hands offer at 6s. 3d.

ATROPINE.—Makers have advanced their prices by about 5s. per oz., quoting the alkaloidal crystals at from 60s. to 62s. per oz. and the sulphate at from 48s. to 50s. per oz., according to quantity.

BERGAMOT OIL.—Some quantity was disposed of prior to the recess at 35s. per lb. on the spot, but most holders ask from 40s. per lb. upwards for 38 to 39 per cent.

BISMUTH.—There is a good demand, and the price has remained at 12s. 6d. per lb. We understand that one ton of Chinese, representing about 60 per cent., can be secured for prompt shipment from Hong-Kong on reasonable terms. These would include 90 per cent. cash payment on arrival and the balance after agreement of weights and assays.

BORAX.—The makers recently announced an advance in the price of extra refined qualities of borax, which are now as follows: Crystal, B.P., per ton 45l.; powdered, B.P., 46l.; powdered (extra fine), B.P., 47l.; crystal, chemically pure, 47l.; powdered, 48l., packed in 2-cwt. bags. Surcharges for other packages are: 1-cwt. bags, 1l.; 1-cwt. kegs, 3l.; and 2-cwt. casks, 2l. per ton. The prices of commercial qualities remain as stated in the C. & D., January 31. Boric acid is unchanged.

BROMIDES are substantially as last week, but potash is, if anything, a trifle weaker. Attention is called to the fact that there is a considerable quantity of poor quality on the market, offered at a low figure, so that discrimination is required.

CAMPBOR OIL has a firmer tendency at 180s. per cwt. for Japanese water-white, and 140s. for brown.

The exports from Japan during December 1919 amounted to 15,198 kin, valued at 11,763 yen. During the twelve months ended December 31 they were as follows:

To	1917	1918	1919
Kin 1,713,633	1,370,869	1,030,601	
Yen 316,132	268,070	333,785	

CAMPBOR (REFINED).—Prior to the holidays spot sales of Japanese 2 $\frac{1}{2}$ -lb. slabs were made down to 15s. 6d. to 15s., a decline of 1s. 6d. to 2s. per lb., and since then sales have been made at 14s. 6d. English refined is also cheaper, flowers offering at 18s.

The exports from Japan during December 1919 amounted to 88,115 kin, valued at 722,223 yen. During the twelve months ended December 31 they were as follows:

To	1917	1918	1919
British India	1,082,490	361,179	67,521
Great Britain ...	145,130	383,911	175,317
France	66,618	90,404	146,222
United States ...	1,493,135	595,622	1,569,506
Australia	112,400	94,946	2,026
Other Countries ...	220,142	238,155	70,688

To	1917	1918	1919
Kin 3,119,915	1,764,217	2,031,280	
Yen 5,304,157	3,686,375	7,883,875	

CARAWAY-SEED is easier, Dutch offering on the spot at 47s. per cwt.

CASCARA SAGRADA is easier, with spot sellers at 100s. per cwt.

CASSIA LIGNEA is slow and easier, whole selected on the spot offering at 87s. 6d. per cwt. and broken at 75s.

CASTOR OIL.—Prices of English are somewhat nominal in view of the large Government stocks which are available.

CINCHONA.—At auction at Amsterdam, on March 31, 274 bales and 356 cases Java Succirubra bark offered, weighing 34,750 kilos., the quinine content being 1,026 kilos. Of this quantity, 101 bales and 356 cases, weighing 665 kilos., sold at from 70c. to 150c. per half-kilo. The first-hand stock of manufacturing and pharmaceutical bark at Amsterdam on March 10 was 8,681 packages.

CITRIC ACID.—Demand has been more subdued on account of the holidays, but prices remain very firm at from 7s. to 7s. 3d. per lb. on the spot. Makers, being sold out for several months ahead, confine their attention to deliveries ex contract. Advices in regard to the American market are somewhat conflicting, and there has been a tendency to rather "overdo" the position, especially if the consumption of so called soft drinks should not exceed anticipation.

CLOVES are easier, fair Zanzibar offering at 2s. 5½d. per lb on the spot. The London stock of Zanzibar cloves (corrected by inspection) shows the surprisingly large figure of 21,666 bales, compared with 10,022 bales and 14,847 bales at the corresponding periods of 1919 and 1918 respectively.

COCAINE.—A substantial advance in coca-leaves took place at the Amsterdam auction, but so far prices of hydrochloride are substantially unchanged.

COCA-LEAVES.—At auction at Amsterdam, on March 31, 845 packages Java (730 bales and 115 cases) offered, weighing 46,183 kilos., of which 684 bales and 115 cases sold, the weight being 43,298 kilos. and the total alkaloidal content 588 kilos. The prices paid were from 30c. to 104c. per half-kilo., the average unit being 46.91c., against 33.14c. at the previous auction.

COD-LIVER OIL.—Little interest has been shown by consumers, and in view of the favourable catch and yield of oil, prices are weaker. Finest new Lofoten medicinal oil can be bought on the spot at from 375s. to 380s. per barrel, and to arrive there are offers at less than 350s. c.i.f. Hull.

COPPER SULPHATE.—The export demand has remained light, and Liverpool f.o.b. terms vary from about 49l. to 50l. for casks, less 5 per cent. The price to the home trade stands at 50l. delivered.

CREAM OF TARTAR is slow of sale, the high price continuing to drive consumers to substitutes. In spite of the slight demand, however, spot prices are very firm at 310s. per cwt. for 98 to 99 per cent. powder.

EGG PRODUCTS remain dull and easier, Chinese liquid hen-yolk offering at 127s. 6d., and April-June shipment at 120s. c.i.f. Dried whole on the spot is 1s. 6d. per lb., liquid whole 125s. per cwt., and dried yolk is 1s. 2d. per lb.

ESERINE.—Makers have slightly reduced prices, quoting the alkaloidal crystals at 6s. per gram, salicylate at 5s., and sulphate at 4s. 9d.

FARINA.—Prior to the holidays the market for Japanese No. 1 declined a further 6d. per cwt. to 33s. 6d., and now 32s. is quoted; March-April shipment is quoted at 30s. c.i.f. Sellers of sweet offer at 32s.

GALLS are firm, with Chinese plum-shaped offering on the spot at 200s., and ordinary at 195s. per cwt.

GINGER.—Japanese is firmer, with spot sales at 64s. per cwt., sellers now asking 66s. Jamaica is dearer, up to 160s. being quoted for the best, after business at 155s. It is reported that America is buying new crop direct, so that only the best descriptions will be left for export to this country.

GUM ACACIA is firm, usual Sudan sorts offering at from 70s. to 72s. 6d. per cwt., and cleaned at 77s.

HEXAMINE remains firm at 17s. per lb. on the spot.

HYPOPHOSPHITES.—English makers have advanced their prices, and now quote as follows: Ammonium 9s. 3d.,

barium 8s. 6d., calcium 5s., iron 8s. 6d., sodium 5s. 10d., potassium 8s., magnesium and manganese 9s. 3d. per lb., with the usual reduction as per scale.

IPECACUANHA is steady, second-hands quoting Matto Grosso at from 24s. to 26s., Minas at from 22s. to 23s., and Cartagena at 21s. per lb.

JALAP RESIN is dearer, makers quoting 30s., and powder 31s. 6d. per lb.

LEAD COMPOUNDS.—There has been no further official change, while the market for raw material again slumped considerably since the holidays. Makers have been in no small degree inconvenienced by the recent sharp fluctuations in pig lead and the frequent changes in compounds. The deliveries all the same are in arrears, although operations are being carried on as far as labour conditions permit. Our impression is that pig lead will eventually be allowed to fall to a more sane level, or to somewhere near 40/- a ton.

LEMON OIL.—Prior to the holiday there was a good demand for spot parcels, but since then little has been done; spot prices vary from 10s. 3d. to 10s. 6d. per lb.

LINSEED OIL.—The demand on home and export account is still hanging fire, while the tendency continues on the easy side. There is a persistent talk of lower prices, while the heavy discount on distant positions does not seem to stimulate new interest. The recent pressing offers of spot oil, however, have relaxed a little, but no important rally is likely unless the export demand improves. Spot market closed on Wednesday at 111s., and Hull at 98s. 6d. naked.

MENTHOL continues quiet, with spot sellers of Kobayashi-Suzuki at 70s. per lb.

The exports from Japan during December 1919 amounted to 15,389 kin, valued at 244,996 yen. During the twelve months ended December 31 they were as follows:

	1917	1918	1919
To	Kin	Kin	Kin
British India	14,853	21,093	8,597
Great Britain	62,870	117,899	52,253
United States	148,554	75,362	163,541
Other Countries	24,933	22,957	15,582
 Kin ...	 251,210	 237,311	 239,973
Yen ...	1,594,327	1,544,307	2,546,898

MINT OIL.—Prior to the holidays, spot sales of Kobayashi-Suzuki were made at the easier rate of 12s. 9d. per lb., and subsequently there were sellers at 12s. 6d.

The exports from Japan during December 1919 amounted to 39,697 kin, valued at 154,065 yen. During the twelve months ended December 31 they were as follows:

	1917	1918	1919
Kin	... 259,720	214,635	409,199
Yen	... 593,614	549,716	1,307,113

NUX VOMICA continues very scarce except at prohibitive prices, which preclude business.

OPIUM remains very firm, and quite a good business has been done, including 12 per cent. druggists' at from 20s. to 21s. per lb. on the spot, with sellers not keen for further business. Constantinople quotes 12 per cent. at from 18s. 6d. to 19s. c.i.f. Letter advices indicate that the disturbances with the Turkish "irregulars" in the Interior are more serious than what is reported in the public Press, and it is anticipated that probably two to three months may elapse before communications are re-established between the Interior and the shipping markets.

SMYRNA, March 20.—We have to report a very active market, with sales amounting to 59 cases of all descriptions. Extra Karahissar has been sold at 940 piastres per oke, Tehallat at 945 to 950, and current talequale qualities at from 885 to 935, as to quality. The above figures are equivalent to 15s. to 19s. 6d. per lb. c.i.f. The exchange to-day is piastres 415 per pound sterling for cheque on London and \$0.88 for one Turkish paper pound. The arrivals in Smyrna to date are 1,506 cases, against 215 at same date last year.

PEPPER continues dull, with prices a trifle lower, fair black Singapore offering at 8½d. per lb. on the spot, and to arrive, April-June shipment has been sold at 8½d. to 8¾d. c.i.f. Lampong is now 8½d., Tellicherry 10½d., and Aleppo 9d. per lb., all spot. White pepper has declined about ½d. per lb., fair Muntok offering at 1s. 3½d. and

May-July shipment at 1s. 2*1*/₂d. e.i.f. Fair Singapore is now 1s. 3d. on the spot.

PHENACETIN is comparatively scarce on the spot, holders asking from 18s. 6d. to 19s. per lb. American makers are sold out until June-July, and the market is temporarily controlled by dealers.

PHENAZONE is steady at 2s. 6d. per lb. upwards.

PHTHALIC ACID is lower, chemically pure offering in drums at 8s. per lb.

POTASH-BICHROMATE.—For re-sale parcels up to 2s. 4d. and 2s. 5d. per lb. is quoted.

QUICKSILVER.—There is nothing fresh in regard to the position of the market, while importers are somewhat anxiously waiting new consignments. Prices are variously quoted from 26*1*/₂s. upward per bottle, less the usual discount.

QUILLIA is in good demand, the spot (London) value of whole being about 92s. 6d. per cwt.

QUININE.—The landings in London during March were 60,288 oz., and the deliveries 22,032 oz., leaving a stock on March 31 of 256,352 oz., against 163,936 oz. in 1919.

RESORCIN is steady, selling at from 42s. 6d. to 45s. per lb. for forward delivery, and spot, which is comparatively scarce, easily commands 45s.

SENECA.—There are still spot sellers at 12s. 6d. per lb. Our New York cable intimates an advance of 15c. to \$2.40, but the rise in exchange should neutralise this fresh advance.

SHELLAC.—Prior to the holidays, the spot market for usual standard TN orange declined a further 20s. per cwt. to 740s., at which sales have been made, but finest descriptions, being extremely scarce, continue without change, including fine Orange at 995s.; R.L.1 at 1,000s.; fine second Orange at 950s.; 610s. for AC cakey, and 600s. for GAL. Futures closed the week at a decline of 30s., May delivery selling at 660s. to 640s., and August at 540s. This week the market for futures opened firmer, and on Wednesday an advance of 20s. to 25s. was paid, the sales including May at 645s. to 675s., and August at 550s. to 585s. per ewt.

SODA SALTS.—*Acetate* is dearer, prime white offering at about 60*1*/₂s. per ton in casks and double bags. *Nitrite* has advanced to about 115*1*/₂s. per ton in casks. *Phosphate* is about 2*1*/₂ per ton higher at 42*1*/₂ for commercial crystals (97 to 100 per cent.). Sales of *bichromate* have been made at 2*1*/₂s. 1d. per lb. for export.

TARTARIC ACID has eased off somewhat at from 4s. 2d. to 4s. 3d. per lb. for powder, and crystals, if obtainable, are worth from 4s. 7d. to 4s. 8d.

TURPENTINE is about 8s. per ewt. lower, American closing at 210s. on the spot.

VANILLIN is slow of sale at from 80s. to 81s. per lb. from dealers, while makers quote 84s. per lb.

WAX, VEGETABLE.—Japanese is about steady, the spot value being 107s. to 108s. per ewt.

The exports from Japan during December 1919 amounted to 234,773 kin, valued at 97,222 yen. During the twelve months ended December 31 they were as follows:

	1917	1918	1919
Kin ...	... 4,976,093	8,924,049	1,648,724
Yen ...	... 1,565,668	3,108,516	725,507

German Drug and Chemical Markets.

We are able this week to quote from the report of a leading Hamburg drug-house, which has refrained from issuing any complete market bulletins since the end of January, as the continual fluctuations in the rate of exchange made it impossible to establish any prices. The recent revolutionary movement has shown how speculation has been responsible for the enormously inflated prices, and that any occurrence or unforeseen circumstance sufficed to upset the market. We have repeatedly urged our friends to refrain from any participation in the unheard of speculation which has taken place in chemicals, and particularly in pharmaceutical products. How sound this advice was is now evident in view of the way in which the market is swamped with offers, emanating not only from Hamburg speculators, but from all parts of the country. The prices now quoted for such pharmaceutical products can only be regarded as nominal, as we have found out by experience

that in such circumstances it is easy to purchase at below the official market quotations. We welcome the step taken by the Hamburg Chamber of Commerce in issuing a warning against speculation in pharmaceutical products; however, to have proved effective, this warning should have been uttered several months ago. Had this been done perhaps to-day would witness a more healthy condition of the market in chemicals than is the case. As soon as the constitutional Government is in a position to quell the disturbances, and the still partly interrupted means of communication are once more in working order, there will be an increased demand for single articles. As heretofore, prices will depend entirely upon the rate of exchange. During the period of the worst disturbances the German mark was quoted on the foreign exchanges at a higher rate than had here been possible to hope for; now, however, a gradual depreciation is again taking place. Middle of last week the pound sterling was obtainable in Hamburg for 275 to 280 marks, whereas to-day one has to pay 312 to 315 marks. In consequence of this depreciation a rise in price of several articles for which there is a real demand must be expected. Prices are quoted in marks per kilo.

ALOES (Cape).—All the deliveries we were expecting have now arrived, and we are able to offer hard, translucent in original cases at m.29 gross, tare 12 per cent. Amounts not under 50 kilos. at m.30 net, less than 50 kilos. at m.32 net. Fine powder can be supplied at two weeks' notice at m.44 for amounts of not less than 25 to 50 kilos.

ARNICA FLOWERS.—Stock of 200 to 300 kilos., and the price is m.17 per kilo.

BALSAM PERU is in great demand. Our whole stock consists of 7 to 8 kilos. of P.G.V. quality at m.500.

CANTHARIDES (Russian).—A consignment is expected to arrive at the beginning of April, price m.650.

CARAWAY.—First quality Dutch stock available of about 300 kilos. at m.14 per kilo., gross for net.

CASEARA SAGRADA.—Good well-seasoned bark is cheap at m.33 to m.34.

COPAIBA (technical).—We can supply 80 to 100 kilos. at m.110, and 30 to 40 kilos. pharmaceutical at m.125.

CREAM OF TARTAR still remains very firm, as makers are scarcely able to supply. A few lots of 100 kilos. are in stock of 98-100 per cent. quality; price is m.78 per kilo., exclusive of package.

ELEMI (white).—We are expecting our first delivery in April of 20 cases. Price is m.75 per kilo., exclusive of package.

JALAP.—Good ordinary commercial is m.67.50.

MINT OIL.—Japan Kobayashi and/or Suzuki is m.600. We are expecting a consignment in April, which we offer (ten cases) at m.560 per kilo.

QUILLIA cannot be imported below m.35 gross for net; we are able to sell a small remainder of 800 to 1,000 kilos. which has now arrived here, and purchased by contract some time ago, at m.33.75 gross for net. We are able to supply 500 to 600 kilos. quillia in small cubes at the very low price of m.34.8 gross for net.

SABADILLA SEEDS.—Only a very small stock is available, and considerably higher prices are reported from abroad. We offer several hundred kilos. at m.35 per kilo., gross for net.

ST. IGNATIUS BEANS.—We hold a stock of about 500 kilos. at m.67.50 per kilo., gross for net.

SARASPARILLA.—Honduras is offered at m.100.

SENEGA can be had at m.485 per kilo.

STAR ANISE OIL ("Red Ship").—Ten to twenty cases are obtainable at the low price of m.218 per kilo.; April consignment at m.210.

TAMARINDS.—Of first quality Calcutta 20 barrels are on their way to Hamburg, and will be here in about a fortnight's time; price is m.16.

VANILLIN (100 per cent.) is offered at m.2,900 per kilo.

YOHIMBI BARK.—We have in stock now about 600 kilos., the remainder of a large consignment, which is offered at m.37.

Opium Smuggling in China.

In further reference to last week's paragraph (page 97) regarding opium smuggling in China, the Rev. G. S. Muir, hon. secretary of the Edinburgh Anti-Opium Committee, writes to "The Times," pointing out that its Peking correspondent does not seem to be aware that the British Government have made with the United States and France arrangements similar to those entered into with Japan in 1917, whereby only licensed parcels of morphine and heroin can be sent from Britain. It is understood also that the Indian Government are taking similar steps in regard to the export of opium to the Eastern Archipelago and Japan. But even if such regulation of distribution became universal the evil would still go on. Control and restriction of production is the only cure.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Face Value.

SIR,—In the report of a meeting which I recently addressed at Salford, published in the *C. & D.*, April 3, p. 89, I am reported to have said that I could not see much in the face-value campaign, but was more concerned with profits. I am afraid if this goes uncorrected it may lead to some misunderstanding. I am keenly in favour of face value, as I have stated up and down the country a good many times during the past winter, but I have always felt that an adequate profit must come before a face-value price which might give practically no profit to the retailer. Undoubtedly face value with adequate profit must be our aim.

Yours faithfully,

PHILIP F. ROWSELL.

Profits on Proprietaries

SIR,—In 1917 (*C. & D.*, 1917, p. 1010) I asked the question: "What is the net profit on the sale of 1,000/- worth of patent medicines at Proprietary Articles Trade Association's prices?" As a result many were persuaded to adopt face value, but with increased working expenses the profits must be less, if not at vanishing point. On the eve of the Chemists' Exhibition the question may be repeated with advantage. Admitted that established saleable patents must be kept in stock, even if sold at a loss, are the chemists going to introduce new P.A.T.A. goods on the 20-per-cent. basis (because this seems the limit)? Chemists who go to the "fair" have the right to ask what the "wages" are to be, and if they have any courage will refuse to hire their services and premises on ruinous terms.

Yours faithfully,

J. J. JACKSON

Hereford.

(Chave & Jackson, Ltd.).

German Reparation Chemicals.

SIR,—In reference to the stocks of German reparation chemicals published in your last week's issue, pp. 74 and 75, I would like to point out that there is evidently an error in regard to the cinchona-bark figures. The figures (26,371 kilos.) for pharmaceutical bark are probably right, but the value (m.7,567,720) given for the smaller quantity of manufacturing bark must be wrong. If this bark, on an average, contains 6 per cent. sulphate of quinine, thus yielding 1,465 kilos., the value should be m.454,150, which would be in due proportion to the value given for the higher-priced pharmaceutical bark. If, on the other hand, the quantity indicated (24,412 kilos.) is meant for sulphate of quinine (855,000 oz.—a most unlikely figure), it would represent a quantity of bark of 406,800 kilos., which, to constitute the value given of m.7,567,720, would mean a price of about m.18 per kilo. The value, however, is clearly arrived at by a multiplication of the probably correct weight of manufacturing bark available—viz.: 24,412 kilos., by m.310, which is the price for each kilo quinine sulphate contained in that bark—and therein lies an error of some 7,000,000 marks. One of your American contemporaries published figures which represented the German cinchona supplies at the Allies disposal as equal to about eight years' full Java production, and values of many milliards of marks. This was owing to the fact that the list they published multiplied every item in the reparation list of chemicals by 1,000, they overlooking the fact that the last three decimals stood for grams, and to equalise matters in the value column they added an "0" to the two decimals standing for pfennigs, thereby making the values also one thousand times too much.

Yours faithfully,

40 Mincing Lane, E.C. 3.

W. BREDT.

The Outlook in the Drug-trade.

SIR,—"Yorkist" (*C. & D.*, April 3, p. 98) is only partly right in saying that in a short time pharmacy will be overcrowded. In 1914, and up to 1917, every retail trade was overcrowded. Even France proposed to stop taking apprentices for ten years, and in England, in 1906, the "Daily Mail" had articles denouncing black-coat jobs and the rush from country into towns, blind-alley jobs like boy messengers in the P.O., and so on. The beginning of the motor boom was really 1906, for only a year or two before that motor-cars had iron-shod wheels (like the old cabs), and motor-cycles were fearsome affairs. The Government were in the throes of the Free Trade v. Tariff arguments, and the first signs of revival came from Lloyd George's Patent Act, which compelled foreign patentees to work their patents here or lose them. While all this was going on emigration was booming, until, by 1913, quite half a million people left our shores yearly for the colonies, and even John Burns spoke about the emptying of the home reservoir. England's blackest years were 1909-1910, when unemployment was at its height. But by 1913 trade of all sorts had begun to revive, because of the huge export trade we were doing, partly as a direct result of the emigration of the previous ten years, resulting in increased orders from our colonies. Boys were crowding into motor works; the old motors had vanished, and the 1913 "Triumph" motor-cycle was an almost perfect machine, and is worth double the 1913 price to-day. The National Insurance Act brought new work to the drug-trade, and yet boy apprentices, and even errand-boys, had become scarce. Since then we have had six years of war conditions, and boys have vanished, and boy apprentices almost vanished, whilst 30,000 women have come into the retail trade. But women are birds of passage in any trade; ten years' service is the outside we can hope or expect to get from them—then marriage, and they begin the real business of life for them, which explains much of their apparent shortcomings while they are in business. Supposing 5,000 to be the figure of the boys who went to war from retail trade:

1,000 were killed.

1,000 will drift to other trades.

1,000 always were and will be slackers.

2,000 are really good dependable men.

Therefore we need only consider the 2,000 dependable men; the others must make themselves dependable, and we have the following numbers and chances for good assistants:

10,000 private chemist's shops.

1,000 company shops.

1,000 co-operative drug departments (rapidly opening).

1,000 hospitals and dispensaries, besides locum work.

Keep in mind that:

(a) These men are young, eighteen to thirty-eight, not yet fully experienced.

(b) That woman labour is all the better for supervision by an experienced man (women not good bosses, nor do they stay long in trade).

(c) That the death-rate of chemist owners is 100 yearly, and few chemist's sons are taking to the business.

(d) That during four years of war period businesses could not be sold; therefore four years' normal sales are overdue.

(e) That every old chemist of seventy and over who could work at all was induced to go back into business; these men are again retiring.

(f) That in 1918 quite 300 chemist owners, and over 300 since, applied to the medical authorities for a rebate of the period of study, and are now qualifying for medical.

(g) That the drift to the dental, wholesale, and travelling, stopped during the war, will again continue.

Surely proof enough for anyone that there are to-day quite 2,000 good jobs or good businesses for men of "ye righte sorte." What do I mean by "ye righte sorte"? There is only one answer, men who work for a master as hard as they would for themselves, and who are thoroughly dependable. During the war one of my locums was one of "ye wrong sorte," but the four girls whom he was supposed to help and assist "carried on" in my absence right well, and I found everything businesslike when I returned. Is it, therefore, very wonderful that some employers still persist in employing women when so many men are (said to

be) available? So that the overcrowding in the drug trade is more apparent than real, especially when we consider that three or four millions of extra wage-earners have been created, and that the old wages of all labour have doubled and trebled, resulting in increase of business for every retailer, apart from mere high prices of goods. The working expenses of private chemists' shops have not all increased in the same ratio as their turnover, because very few chemists were fully employed at their full capacity for work in 1912, simply because the trade was then really overcrowded, considering the small wages being earned by the working-class and available for spending in retail shops. Thousands of chemists were running sub-post offices, with a turnover of 4,000*l.* a week, as mine had, where we ladled money about with a shovel, and served 8,000 people a week, with hardly any time left to serve drugs. Other men were "wangling" the parish pump as town councillors—another out-of-date job, which many busy men have been glad to give up, as they could see their efforts were useless in face of the wrong ideas of the new Labour element, and have minded their own business, with great advantage to the business, to themselves, and to the public as well. All this brings me to capital found by the sellers, which so many men seem so anxious to hear about. Now 75 per cent. of men in business to-day known to me did receive help from someone at the start, and worked it off, and there is nothing new in it at all. They ought to be proud of the fact, and sometimes are, but more often conceal it, hence the ignorance of young men to-day on the subject. Banks live by it, charging 5 per cent. or 6 per cent. for the loan which, in their case, was to be guaranteed by some friend acceptable to the bank. To get owners to trust you, or wholesalers to give you long credit for goods, you need a record behind you of solid work, known to the various travellers who have been calling for years. The best help of all is the actual money saved, as I did, and, as my first apprentice tells me, he did, in ten years what I took thirteen to do—viz., save 1,000*l.*—and he has just bought a business, and reckons he has beaten me. The next best help is from your employer. But when you approach wholesale houses or agents put your wants down on a postcard:

Name. Age. Experience. Family. Capital. Business wanted. References. Work.

Willing to work at nominal wage for a month's trial if you cannot put down all the cash.

Do not write a four-page letter without stops or sentences or headings; remember wholesalers especially have lots of work to do besides keeping a catalogue of men who often have mighty little to recommend them except an overweening conceit of themselves, with a lot of bad habits, and, perhaps, a wife with inflated ideas of what she needs when you get into business on your own account at somebody else's expense. One man I know (not in the drug-trade) came home from the colonies and trained in a quiet little town in England—and married the big trader's daughter. And when the war was over the big trader took him into partnership for a year, and has now retired, and son-in-law is making 1,600*l.* a year, less 600*l.*, which he pays to the old man. My own grandfather was too independent to seek help from his own father, but was started in his first farm and corn mill by a corn dealer, who recognised character when he met it. My apprentice boss borrowed money from my grandfather, and paid it off in a year, and I am very proud of the fact that a firm of lawyers in South Wales offered me a business worth 2,000*l.* for 100*l.* down, and a lawyer in Yorkshire offered me another when they saw my bank reference and the way I kept my books. Is that good enough? Trade unionism will never help you into business, in fact it is significant that the drug-trade men are only taking to unionism when the working man is quietly beginning to get sick of the domineering power of the secretaries. "Strikes are played out" they tell me often enough, and the only result is to raise cost of living against themselves. It is, and always has been, the pace of the slow worker; no attempt was made to grade men according to ability, hence "ca' canny" and high cost of living because of low production to-day.

If trade unions do not grade their men, then the production cannot rise to full level, because the best men have to go at the pace of the slow men, or "something would drop on them from above if they worked too hard," as one of my engineer brothers said when he left the Clyde for Canada fifteen years ago. . . . Trade unionism has become anti-national, and the time is fast coming when they will beat the Government out and out, or the Government must declare such unions a public danger, and make them disband, as the United States did to the big Trusts, and form again on different lines. The Profiteering Act is the latest stunt to harry and harass private traders to please the big unions. As a fact, the only profiteers are the colliers, the shippers, and the trade unions. It is mere bunkum to talk about cost of living when so much spare money seems left over for: (1) Picture-palaces; (2) cigarettes and beer; (3) fur-coats and fine clothes for the women; (4) motors and holidays to the seaside. The drug-trade has been the best paid shopkeeping trade since 1890, and, as Hugo Wolff says, if the unions in the drug-trade push wages too high it will pay better to do without men, even if you do less trade, which will decrease employment. The amusing part of it is that the higher the wages rise in the drug-trade the worse the big unions will clamour for a Profiteering Act. You will tramp on their toes, and they are top dog. Take a hint from me, leave unions severely alone. Let the slow man be paid as he is worth; push your own value up by real knowledge, and you will have plenty of jobs and big wages. I had them twenty years ago. Finally, take this tip, work harder, save harder, look for a business, and, while you are looking, get up a working recipe-book of your own, of homely easily made: (1) Cough cures; (2) children's powders; (3) headache powders; and such simple things that can be packed in your own shop. Practise on your employer's customers; it will pay him and you too. Do not bother with things that need elaborate packing, you can buy them. You need fifty in all, have them ready, and add another fifty of what I call "shop drug-packing in pen'orths," such as rhubarb-powder, 1 oz. divided into forty-eight packets at 1*d.* And if you can find a chemist who has also a daughter to give away, and the lady seems willing—well! what more could man want? A Scotchman once offered to take two daughters, with 20,000*l.* each, which the old man was worth, but he said, "No, no, David! you can only have one of them." And I believe she was ugly as well.

Yours truly,

JAY MACK.

How to Increase Turnover.

SIR.—In the *C. & D.*, April 3, p. 99, Mr. Marns gives an experience for retail chemists to follow; but, alas! there is another side of the signboard. Take the case of the country chemist, the one-man type, whose window is passed every day, possibly several times, by the selfsame individuals. Were he to adopt Mr. Marns' ideal of progressive business, it would mean absolute ruin within a few months from any time he chose to start the experiment. Moreover, it is unfair for retailers to give window-shows to producers, because it becomes a back door to eliminate wholesalers from their legitimate position of linking-up producers with retailers. Of course, no one can say that wholesalers have acted fairly to retailers during the recent reshuffling of prices by adopting, first, the 1½-per-cent. addition; nor have they improved the position by eliminating the 1½ per cent. and adopting a flat rate to the tune of 2½ per cent. Retailers must understand that now it takes 20 per cent. of our patents turnover to meet our overhead charges; if that be not obtained we work in a blind alley, and no matter what producers or wholesalers may assert, we throw our capital broadcast for producers, wholesalers, and consumers to pick up and glory in their achievement. The matter is so serious that it is the duty of every pharmaceutical association to tackle the subject firmly by declining longer to remain sweated helots to the powers who profess to look after our interests. I am writing my wholesale patent houses in future to fill no order of mine for patents where the profit is less than 20 per cent. on face value.

Alyth.

JAMES McGLASHAN.

Drug Department's Menace.

SIR.—The address of Mr. Hugo Wolff to the Brighton and Hove Association of Pharmacy (*C. & D.*, April 3, p. 88), although presumably delivered to master pharmacists, is not without interest to assistants as well. Mr. Wolff warned his audience of the menace of the continued opening of branches by the big stores, and then later on he stated that if the assistants' union were to demand the same wages as the stores paid, private chemists would not employ them. Well, the master pharmacists cannot have it both ways; on the one hand they object to the qualified assistant working for the stores, their competitors, and on the other they object to pay him an equivalent wage to keep him away. Personally, I have rather congratulated myself that I have never been tarred with the stores brush, but I am convinced that I should have been much better off, both as regards wages and hours, if it had not been for my foolish scruples as to professional ethics. Certainly I shall never retire or amass enough to buy a business out of my wages from a private chemist, nor do I hold any wild hopes that my employer will allow me to succeed him. It is much more likely that the business would be sold and that I should receive a month's notice at an age when I should have a difficulty in finding a fresh berth. After all, the master pharmacists have only themselves to blame for the competition of the stores; they should have insisted on their elected representatives in the Pharmaceutical Council taking action to protect their interests when the first drug company was formed. What would be the fate of a limited company promoted to open as general medical practitioners or as solicitors and barristers? And I have yet to learn that private chemists are preferable as employers to companies. In a private business the assistant is expected to take an "intelligent interest" beyond his daily duties, which, being translated, means that he is to arrive punctually in the morning and leave at any time his employer thinks fit, to take Sunday and holiday duty without extra pay, to spend Bank Holiday stocktaking, and, if he lives on the premises, to answer the bell at any hour. It is only when the *l. s. d.* question arises that he is reminded that he contracted to work for so much a month; the interest then becomes unintelligent. Most assistants, on first becoming qualified, take a serious and more or less professional view of their calling, and start out, as I did, with an objection to store appointments, and afterwards are gradually forced to take these positions by economic circumstances; and after putting in the best part of my life with private employers I now think I was foolish not to do the same myself.

Yours truly,
QUALASIST. (19/9.)

The Closing Hour for Chemists.

SIR.—The closing hour for chemists is the next problem which the retail pharmacist will have to face in the immediate future. It appears that the Insurance Committees are going to expect a full service till 8 P.M. and a probable emergency service till 9 P.M., or later, according to the neighbourhood; but, on the other hand, we have the Early Closing Bill coming on apace, whereby the closing hour for shops will be fixed at 7 P.M. Thus we have the two Orders in direct opposition to one another, and if the authorities enforce the closing of the door and putting lights out at 7 P.M. as rigorously as they do now at 8 P.M. it is going to cause us considerable inconvenience. There is also the question as to whether assistants will leave work compulsorily at 7 P.M. under the new Bill as at present on early-closing day at one o'clock, or whether work after that hour will be considered as overtime, to be paid for accordingly, in which case at the present rate of tariff payment it will certainly not be an economical proposition to remain behind for Insurance dispensing alone. The point raised by "Xrayser II." and mentioned by Mr. Harris in his letter (*C. & D.*, March 27, p. 101) as to a chemist doing nothing but Insurance work reminds me that some time ago I saw a notice of a company being formed for panel pharmacies only, but it has apparently dropped through; perhaps it was obvious to the promoters that it could not be made to pay. It is only due to the fact that

a chemist has his establishment already running successfully, that he is able to add the Insurance work at the present rates, and this state of affairs, however convenient it may be for the Insurance Commissioners, is not a sound business policy.

Yours faithfully,
EARLY CLOSER. (199/3.)

Dr. McWalter's Warning.

SIR.—I quite agree and am in entire sympathy with the letter of "Qualified" in the *C. & D.*, March 27, p. 101. I know of more cases where the title is used in the same misleading fashion, and where medical prescriptions are dispensed. In my own town a hardware merchant makes very prominent window-displays of patent medicines and proprietary articles, and I have no doubt that a number of these articles are "poisons" within the meaning of the Pharmacy Act, and, to make matters worse, he freely adopts the "cutting" system. As he is not even a "druggist" under the old Act, I consider it a most glaring injustice that such a state of things should exist, and, like "Qualified," I should be only too happy to subscribe to any fund which would safeguard the "title."

PH.C. (30/3.)

Homœopathy.

SIR.—I am much obliged to both "Medicus" and Mr. Walgate for their letters on homœopathy, which certainly carry the discussion a good step further. I must admit that I am corrected by Mr. Walgate as to the meaning of the word "homœopathy," this, of course, meaning "like cures like"; but both in the dispensing and the sale of homœopathic medicines it is nearly always the weak dilutions that are called for, and so one naturally connects homœopathic treatment with infinitesimal doses. The reply of "Medicus" was very interesting to me, as at the time of writing my previous letter I had in mind particularly some lady customers who have been suffering from a kind of skin eruption on the face. Two of these ladies have been under medical treatment, one for two years or so, the face coming up in spots under the skin, sometimes breaking and sometimes aborting, but never completely going away; and I have dispensed for them prescriptions containing iron, arsenic, iodides, calx sulphurata, and so on—in fact, all the usual skin remedies—without result. A third customer, with apparently similar trouble, treated herself with home remedies, as sulphur tablets and ointment and saline, and then took to proprietary medicines, equally without result, and it is this which largely aroused my interest as to the action of drugs being beneficial or otherwise in general in such cases.

Yours faithfully,
CYNIC. (3/4.)

Ancient Brushes.

SIR.—"Xrayser II.'s" observations on brushes bring back to my mind the extremely interesting collection of toilet articles and household requisites in the Naples Museum, which have been discovered in the excavation of Pompeii and Herculaneum. Some years ago when in Naples I spent a considerable time looking through these exhibits, but I cannot recollect seeing any brushes at all, nor can I find any mention of brushes in the catalogue. Combs are there, both metal and ivory, hairpins, metal mirrors, toothpicks, earpicks, but of brushes not a sign; and yet it seems to me that it is hardly possible that a nation of such civilised attainments as the Romans can have been without brushes of some sort for toilet purposes. Cassell's Latin Dictionary gives *penicillum*, a painter's brusna, and *peniculus*, a dusting-brush, but nothing at all for hairbrush. Another case in this museum which interested me very much was the one containing the collection of surgical instruments found in the house of the surgeon at Pompeii, most of them being almost identical with those in use at the present time, and in particular a vaginal speculum with three blades which dilated by means of a screw movement in the handle, which I had previously thought to be the last word in modern instruments. And there were also specimens of pills and ointments as used by the ancients.

Yours faithfully,
NAPOLI. (27/3.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Appreciations.

Please find herewith Treasury note value 1*l.* for next year's subscription to the *C. & D.* I can still get value many times over from its pages.—*A. H.* (6/4).

Please send me the *C. & D.* as hitherto for one year, for which I enclose Treasury note value 1*l.* in payment. This, of course, cancels my former postcard in which I told you I should not continue my subscription. It may interest you to know that when writing the postcard I was actuated by a desire to reduce expenses during these times of continuous increase in cost of living. After looking through one more issue of the *C. & D.* I felt a sincere regret that I was doing so for the last time, and finally concluded that I should miss it greatly, and that I could even better afford the pound note than I could afford to lose the useful information contained in the *C. & D.* for a whole year.—*E. A. C.* (94/22).

Improving Phonograph Records.

S. P. S. (23/3) writes: "Can you give us particulars of a powder which is first dissolved in acid, such as acetic acid, and the liquid is applied to the face of phonograph records to improve them?"

Legal Queries.

R. W. (1/4).—The Board of Customs and Excise do not regard the title "Hamilton's Pills" as setting up a claim for proprietary rights.

Cocaine (5/4).—The Cocaine and Opium Regulation is still in force. It has been continued under the War Emergency Laws (Continuance) Act.

J. L. P. (3/4).—As a chemist you are qualified to supply scheduled poisons, of which ext. opii liq. is one, so long as you carry out the provisions of the Pharmacy Acts. The *C. & D. Diary*, 1920, contains full particulars as to what the conditions of sale are.

Cosmos (27/3).—Those persons who, although not registered dentists, were, on July 28, 1916, bona-fide engaged in practising dentistry, may purchase preparations containing not more than 1 per cent. of cocaine for use as local anaesthetics. The wholesale chemist may prepare the solution from the purchaser's formula provided the proportion of cocaine is not in excess of the amount which the general permit allows.

E. S. (27/3), some months ago, ordered a quantity of American proprietary articles from the traveller of the manufacturers' British agents. The goods were ordered at the prices quoted at the time. They have only just been delivered, and are invoiced at a price considerably higher than the contract price. No notice of the advance in price was given to "E. S.," nor was the contract made subject to any condition providing for an increase in price. Is "E. S." entitled to retain the goods and pay the contract price for them? [In our opinion "E. S." is not liable to pay more than the price at which he ordered the goods, and is entitled to retain them at that price.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Basic (30/3).—There is no legal restriction on the sale of sulphurous acid by a grocer, so long as it is of B.P. quality. It may be sent by rail without restrictions, as it is not classed as one of the mineral acids.

C. C. (31/3).—The process of sugar-coating tablets is the same as that employed in sugar-coating pills, which again is founded on the confectioner's method of pre-

paring sugar almonds. A short description of the process is given in "The Art of Dispensing," and a longer article in *THE CHEMIST AND DRUGGIST DIARY*, 1898, p. 496.

City Hall (6/4).—Full particulars must be sent with samples to enable us to judge whether they are of sufficient general interest to warrant us undertaking the analyses.

L. B. (26/3).—COLOURING SMELLING-SALTS.—For green, the following makes a permanent colour: Dissolve quinine sulphate 10 grains in dilute hydrochloric acid 10 minimis, and add absolute alcohol to make 40 minimis. Then add chlorinated-lime solution 10 minimis, and when the solution has become clear add sufficient alcoholic ammonia to make 1 oz., stirring while doing so. For lavender, a mixture of phenylene and methylene blue answers fairly well, and for pink, safranine or cudbear is used. The aniline dyes, however, are not, as a rule, permanent in the presence of ammonia. The perfume is managed by dissolving an appropriate essential oil in the alcoholic ammonia with which the bottle is filled.

W. F. P. (26/3).—Heliotropin or piperonal is generally prepared by the oxidation of isosalicrol. We do not know the method to which you refer.

P. B. (31/3).—SEASICKNESS REMEDY.—The active ingredient of the seasickness remedy which you mention is chloreton—five-grain doses—but caffeine and powdered cinnamon are also present.

Aniseed (30/3).—FISHING-BAIT.—The powder used for scenting worms used as bait by fishermen is mainly feign-greek, with a small quantity of aniseed. You should have no difficulty in imitating it.

F. S. & Co. (27/3).—GLYCEROPHOSPHATE PREPARATIONS.—The difficulty in making an aqueous preparation of glycerophosphates is that without a preservative—glycerin, alcohol, or sugar—the solution soon decomposes. If made with cold sterilised water, a solution keeps a few days, so that the way out of the *impasse* would be to supply your customer with sufficient solution for two days at most.

G. Y. (29/3).—THIOSINAMINE is used by local injection, but is not applicable to stricture of the bowel. Apart from operative treatment, enemas and paraffinum liquidum afford the best means of relief of the condition you describe.

Sach. (29/3).—BEETROOT SYRUP.—Without knowing the details of the process which your customer uses for manufacturing beetroot syrup, we are unable to advise you as to the cause of the earthy flavour which the product has. The Vernon-Harcourt method of making the syrup gives satisfaction. The details were printed in the *C. & D.*, March 23, p. 45.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 14, 1870.

French Pharmacy.

French people take little physic; but that little must be nice. A Frenchman would as soon eat Cayenne pepper as swallow a black draught; hence the staple wares of the pharmacien are syrups, wines, elixirs, granules, or purgative lemonade, as gratefully refreshing as that of the cafés on the Boulevards. French physicians, too, nearly always try to tickle the palates of their patients by ingeniously hiding some powerful remedy in an agreeable vehicle—to wit, kermes in loochs, morphia in potions gommées, and by substituting for cod-liver oil the imitable Elixir of Garus, beside which *Curacao* and *Chartreuse* of the golden-greenest hue lay down their laurels. And a delicately flavoured draught often proves a source of considerable profit to the pharmacist, for "good wine needs no bush," especially when sanctioned by the great guns of the infallible profession. But, however Lucullus-like Frenchmen may be in their choice of medicines, their pharmacies are most inconvenient and unbusinesslike. With the exception of Paris, and a few semi-anglicised places in the South, the *offices* are as conspicuous for their wretchedness as the *pharmacies* are for their science and unpractical habits.

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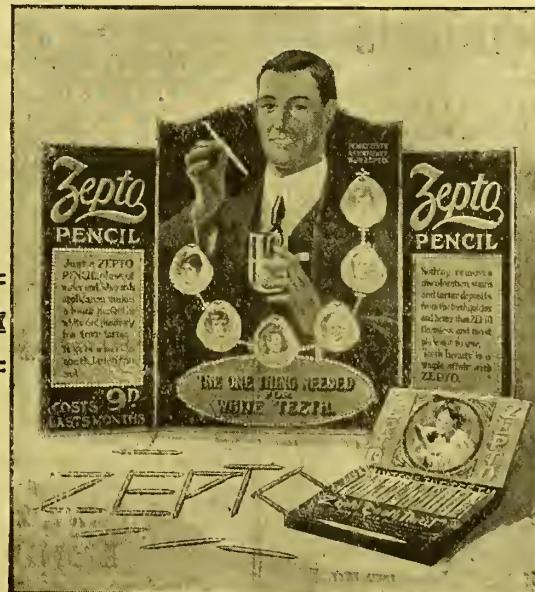
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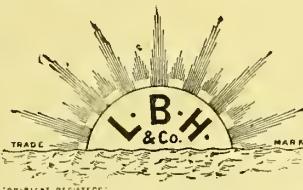
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lb.; 12 1-lb. Bots. @ 1/11 lb.; Single Bots.

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Bismuth Carb., 14 lbs. @ 18/- lb.; 3 lbs. @

18/2 lb.; 1 lb. @ 18/4 lb.; subnit., 1/9 lb. less.

Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 3/3 lb.;

10 lbs. @ 3/6 lb. 14/6 lb.

* Ext. Ergot. Liq. P.B., 5 lbs. @ 4/- lb.; 1 lb. @

7 1/2 lbs. @ 5/10 lb.

Fol. Sc. na Tinnev., 1 cwt. @ 1/- lb.; 7 lbs. @

1/1 lb.; 7 lbs. @ 1/5 lb.

Fuller's Earth, fine powder or lump, 5 cwt. @

13/- cwt.; 1 cwt. @ 14/-

* Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 3/5 lb.

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* " Buchu Cone, 1 to 7, 6 lbs. @ 6/- lb.

* " L. Ammon. Acetatis Conc. 1-7, 6 lbs. @

1/10 lb.; 1 lb. @ 2/2 lb.

* " Ammon. Aromatic, 6 lbs. @ 1/2 lb.

* " Amygdal. Ang., b.i. 9 lbs. @ 4/6 lb.

Potass. Chlor. Pulv., 7 lbs. @ 1/6 lb.

Potass. Cit., B.P., 7 lbs. @ 7/1 lb.

Soda Benzoas, 7 lbs. @ 6/6 lb.; 1 lb. @ 6/9 lb.

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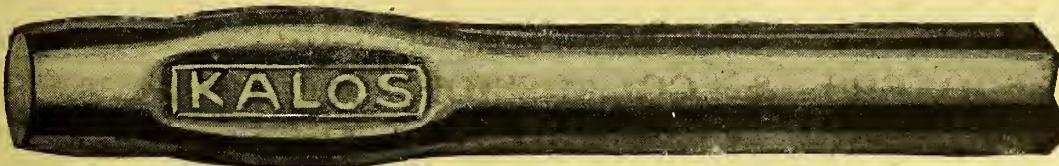
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7 lb. "	41%	" "
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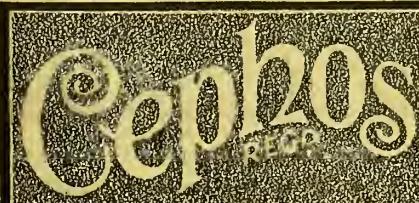
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1s. 3d. size	10s. 6d. per doz. net.
3s. Od. "	26s. 6d. "
5s. Od. new size	50s. Od. "

(contains double the quantity of 3/- box.)

Beecham's Cough Pills:

1s. 3d. size	...	...	...	10s. 6d. "
3s. Od. "	...	...	...	26s. 6d. "

Orders : Minimum quantity £5 value—approximately. | Packages FREE. Carriage PAID.

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ld., St. Helens."



4/- per 1000 all sizes

Special quotations for quantities.

Cicero S. Clark, 12 Richmond Rd., Bayswater, W.2.

CACHETS

are the best vehicles for giving medicine in powder form. They dissolve immediately and the drug is set free at once.

New English Digitalis Leaves,
COLCHICUM CORMS,
COLCHICUM SEED,
WHITE BRYONY ROOT,
BLACK BRYONY ROOT,
SLOES, &c.

For prices and particulars apply—

FLEMONS & SONS,
Herb Merchants - - DUNSTABLE

ALL CHEMISTS SHOULD STOCK **ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, 1½d. each; Boxes of 13 packets, 1/6.
Wholesale Prices on application. Sample Box 1/6.
D. MCGLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH

BOTTLES

CANNONS,
BRILLS, LIMES,
PERFUMES,
BAY RUMS,
KALIS, CARBOYS

WHOLESALE ONLY—PROMPT DELIVERY.

E. DUNCAN DORING, 7 King St., Cheapside, E.C.2
Telegrams: "Doringlaco, Phone. London." Telephone: City 4800.

John E. Raworth & Moss
Chartered Patent Agents.

The Old Mansion House, AND Queen Anne's Chambers,
73 Cheapside, E.C.2. Westminster, S.W.1.

SAPONINE

(SOLUBLE)

Special Terms to Wholesalers and Large Consumers.

MANUFACTURED BY
C. W. FIELD, LTD.,
Cambrian Mills - - Liverpool.

An Announcement of importance to Chemists and Druggists

To retailers who have not yet realised the wisdom of stocking Iglodine Preparations and so participated in the resulting increased profits we are pleased to make this announcement:

"That from now, our terms to the Trade permit a profit of 50% on Iglodine Antiseptic and Iglodine Specialities."

"That in conjunction with the reorganisation of our factory—where we specialise in up-to-date ideas in design and "make-up"—an extensive campaign has been commenced which has already created a rapidly increasing demand."

It is perfectly clear that this demand of the public for Iglodine Preparations is no whim of the moment. It is a permanent desire founded on the realisation, after trial, that in the performance of their various missions Iglodine Preparations are particularly effective.

Iglodine Specialities

- Antiseptic
- Embrocation
- Ointment
- Pastilles
- Tablets
- Soap
- Nasal Douche
- Suppositories

Φ 12

-Iglodine-

for Colds, Influenza, Throat
Troubles, Cuts, Bruises, Burns, etc.

Write to us to-day and share
in the profits from goods
which the public demand.

**The Iglodine Co., Ltd.,
Newcastle-on-Tyne.**



Kay's Compound Essence of Linseed,
"LINSEED COMPOUND"
(Regd. Trade Mark).
For COUGHS and COLDS.
On the P.A.T.A. List.

"KAY'S TIC PILLS."
"MOUNTAIN FLAX PILLS"
Linum Catharticum (Regd. Trade Mark).

"COAGULINE" & "TENASITINE"
CEMENTS.

"ORBITE"
Banding Material for Fruit Trees.

BIRDLIMES, RATLIMES, and
FLYGUMS.

Sole Makers :—

KAY BROTHERS LTD.,
STOCKPORT.

BRITISH Saccharin Tablets

Full Strength, 0·3 gr., 550. Saccharin, in each.				
100 s	200's	500's	Per lb.	
Card Boxes ...	8/-	16/-	40/-	45/-
Aspirin Tablets, gr. v, per 1,000 6/-; per lb., 8/-; in card boxes—				
25's, 3/9; 50's, 7/-; 100's, bottles, 14/- doz.; in bottles, 25's				
4/9; 50's, 8/6				
Cascara Tablets, gr. ii, pearl-coated, per 1000, 5/-; in card boxes—				
25's, 2/-; 50's, 3/9; 100's 6/9 per doz. In bottles, 25's, 3/-;				
50's, 5/-; 100's, 8/6 per doz.				
Formalin Tablets, contains ½ gr. Paraformaldehyde, per lb. 3/-; in screw-cap bottles, 50's, 7/6 per doz.				
Bismuthated Magnesia Tablets, per lb. 3/3; in screw-cap bottles, 50's, 8/- per doz.				

Pine Tablets, 2/3 per lb.; 2-oz. cartons, 3/9 doz.

Sulphur Tablets with Cream of Tartar, 2/- per lb.

Indigestion Tablets (Heart shape) 2/6 lb.; 2-oz. cartons, 4/9 doz.

Boat-Shape Feeding Bottles, each in box, complete with transparent teat and valve, 10/- per doz.

Paper, Double Demy, 22½ x 35, 24/- per ream.

„ Nature Brown Cap, 18 x 28, 7/- per ream.

Aspirin	P.B. 7/6 lb.	Oil Olivae Cream Sublime	28/- gal.
Acid Tartaric		Paraff. Liq.	P.B. 12/- "
Poly. or Xtal.	P.B. 4/3 ..	Sodii Salicyl.	P.B. 4/9 ..
Cream of Tartar 99%.	P.B. 3/- ..	Camomile Flowers	2/- lb.
Acid Citric	P.B. 6/- ..	Senna Pods	10d. ..
Magnes. Carb. Pond.	P.B. 1/3 ..	STICK JUICE 2 oz.	
„	Levis P.B. 1/- ..	STICKS, PURE 4/- ..	
Naphthaline Marbles	8d. ..	French Chalk Pulv.	3d. & 4d. ..
Magnes. Calc. Levis P.B. 2/6 ..		Genuine Caraway Seed	10d. ..
Gum Acacia, Powd. Elect.	Sorts 1/3 and 2/- lb.		
Tragacanth, Powd. Elect.	18/- lb.	Pot. Brom., Howards', 4/9 lb.	
Sod. Brom. Howards' 5/- lb.		Ammon. Brom. Howards' 5/- lb.	
Bismuth Carb., Howards' light 18/- lb.		Pot. Iodid., Howards' 18/- lb.	

£5 value, exclusive of Saccharin tablets. Carriage Paid.

Cash with order. Postage charged on Saccharin tablets.

Packages Charged.

C. W. HARPER,
254 Stockport Road, Manchester.

Compressed Tablets, Fine & Heavy Chemicals, Druggists' Sundries,
Glass Bottles.

30% PROFIT

OUR SPECIAL ADVERTISING OFFER.

On orders to the value of £5 and over, conditional upon settlement being made within 30 days from date of invoice, a discount of 5% will be allowed to dealers who undertake to make, within one month from receipt of goods, an effective Window or Counter display of a portion of the goods, and of the small Showcards accompanying them.

The goods will be sent carriage paid and packages free.

This offer makes possible a profit of nearly 30% on turnover, or about 10d. on the sale of each bottle of Mother Seigel's Syrup.

Orders may be sent through your Wholesaler, or direct to us.

MOTHER SEIGEL'S SYRUP

Price Lists on Request. A. J. WHITE, Ltd., 35 Farringdon Rd., LONDON, E.C. 1



Ask your
Stationer

for Samples of

GUMMED TAPE

which is made

Plain or printed in
one or two colours

It is displacing Sealing Wax everywhere.

SAMUEL JONES & Co., Ltd.
Gummed Tape Makers,
BRIDEWELL PLACE, LONDON.

Your Profit is nearly 30%
on all our proprietaries, if
you take advantage of our
Special Advertising Offer!

ONE SIZE ONLY.

Owing to the incidence of the Revenue Stamp duty, and the greatly increased costs of production and distribution, we found it impossible to grant adequate discounts to the Trade on the sale of the small size (1/3) bottle of Mother Seigel's Syrup. Accordingly, as previously announced, we discontinued issuing this size (1/3) in Great Britain on March 25, 1920.

YOUR OLD STOCK.

As the Face Value and Protected Price of Mother Seigel's Syrup is now 3/-, and you may still have in stock some bottles marked 2/9, we shall be pleased to send you, on request, a supply of gummed labels to adjust the price. State the number of bottles you have, marked 2/9, and we will send you two labels for each bottle.

P.A.T.A.
AND
FACE VALUE.

NEW PRICES OF



Increased cost of manufacture
compels a rise in the prices of
"New-Skin" as follows :

	Retail Prices	Trade Prices
Pocket Size	10½d.	8/5
Medium "	2/-	19/2
Physician's "	3/-	28/9½

£3 and upwards Carriage Paid.

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct—

J. E. GARRATT,
96 SOUTHWARK STREET, LONDON, S.E.1.

DOES A GOOD LINE
NEED ADVERTISING?

Messrs. FLU-MAL LTD. believe it to be an essential factor in the promotion of sales. However good an article may be, the public need telling about it. Messrs. FLU-MAL have already spent many thousands in advertising to the general public, and you have doubtless already been repeatedly asked for "FLU-MAL."

**A further large advertising scheme is now being issued.
ARE YOU PREPARED with Stocks of "FLU-MAL"?**

Their preparation is a preventive of Influenza, Malaria and kindred complaints, and the public are being told repeatedly of the best method of combating influenza. There is an excellent profit in selling "FLU-MAL," apart from which you can be certain that you are handing your customers a preparation which is a real preventive and certain cure for Influenza, heavy colds, malaria and kindred diseases.

"FLU-MAL" IS A PROVED REMEDY, AND HUNDREDS OF TESTIMONIALS HAVE BEEN RECEIVED.

"FLU-MAL" is obtainable from your usual Wholesaler or direct from the Laboratories.

Retail Prices, 1/3 and 2/6, Extra Large sized Bottle, 4/6.

Write for particulars to—

FLU-MAL LTD., 44 Tachbrook Street, London, S.W.1.
Telephone: VICTORIA 7472.

**LIQUID BARKOLA COMPOUND**

**Wholesale 30/- per doz.,
Retail 3/- each.**

Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.; Syrup of Ginger, 5 oz.

Chemists charge according to their own scale for dispensing

**THE BARKOLA CO., LTD.,
42 Great Dover St., LONDON, S.E.1.**
Proprietors of Barkola Alvexo, Barkola Balm, &c., &c.

Never be without



On the P.A.T.A.

The genuine remedy for ECZEMA, CUTS, BRUISES, SORES, BURNS, PILES, PIMPLES, BAD LEGS, SORES on HEAD, CHAPPED HANDS and ALL SKIN TROUBLES.

Liberal Terms to the Trade.

Apply to your Wholesaler or to
The "ZI-ZI" CO., Newmarket.
Advertising matter free on request.

HEALO

P.A.T.A.

CARRIAGE PAID. BONUS ORDER.

		Costs	Sells for
6 doz. 1/3 @ 11/6	...	£3 9 0	£4 10 0
Less Window Show Allowance		0 5 0	
		£3 4 0	
BONUS—1 doz. Free...	...	... 0 15 0	
		£5 5 0	

SKIN OINTMENT.

		Sells for	...	£5 5 0
		Costs...	...	3 4 0
		Profit	£2 1 0

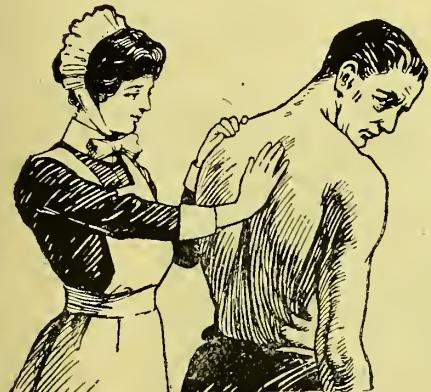
= 64%

ATTRACTIVE SHOWCASES, WINDOW BILLS, CARDS and FREE SAMPLES.

MAURICE SMITH & CO., LTD.
Manufacturing Chemists, Kidderminster.

It's "ODDS ON" "ODDS ON" Now!

The Public are **BUYING**
The Trade are **SELLING**
We are **PUSHING**



The success of "ODDS ON" OILS as a "Seller" is astonishing our Retail friends. One Chemist writes of "ODDS ON" as the BUY and BUY AGAIN Liniment. And it pays to push, as PRICES and PROFITS are PROTECTED. Vigorous and persistent National advertising is creating steady demands. Local and concentrated advertising is being done District by District. Satisfied users will visit you to purchase again and again—they will also buy other things—that is why we say "ODDS ON" is

"The Liniment Line to handle."

OUR WINDOW-SHOW BONUS OFFER

has already been taken up by 800 Chemists—The proportion of repeat orders is remarkable. Write direct to-day for Terms (*a postcard will do*).

Supplies of "ODDS ON" OILS can be obtained of any Wholesaler or direct.

Inquiries invited from Colonial and Foreign Buying Agents.

"ODDS ON" SPECIFICS Co., Ltd., 36-37 COCK LANE, SNOW HILL, LONDON, E.C.

ODDS ON" OILS
THE PAIN KILLER.

P.A.T.A.
1/3, 3/-
and 8/-

Telephone: 787 TRAFFORD PARK.

Telegrams: "STEVENUT MANCHESTER."

CONTRACTORS TO H.M. GOVERNMENT.

G. STEVEN & CO.

(G. STEVEN, Ph.C., M.P.S., PROPRIETOR)

Wholesale Chemists & Drug Grinders,
**CORNBROOK STREET & CHORLTON ROAD,
MANCHESTER.**



Manufacturers of all Pharmaceutical Products.

SYRUPS. We specialise in all classes of Medicinal Syrups. Our Syrup Ferri Phosph. Co., Syrup Hypo. Co., &c., are unrivalled for brilliancy, taste and keeping properties.

Prompt delivery, packed or in bulk.

TABLETS. We are in a position to supply large quantities of medicinal tablets, packed or in bulk.

"NIOBE." "Niobe" Specialities are now in great demand. All products are guaranteed and profitable to handle. **No. 118 Eau de Cologne** is unique and requires no advertisement.

Samples and Prices on Application.

GELATINES

FINE LEAF GELATINE
PURE CALF

"ALBION" BRAND

(In 1 lb. Packets.
(112 x 1 lb. Packets to Case.)

MADE IN ENGLAND.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

Samples on application from

OURY, MILLAR & CO.,

Telegrams:
"OLMENTH,
LONDON."

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LONDON, E.C.

Telephone:
4978 AVENUE.

Francis F. Fox & Co. : Bristol

**OILS
METHYLATED SPIRIT
CHEMICALS
DRYSALTERY**

PRICES ON APPLICATION

TELEGRAMS—
"FOX BRISTOL."

TELEPHONE—
19 BRISTOL.

We offer

WAXES

PETRO. JELLY

LIQUID PARAFFIN

B.P.

WHITE OILS

Send us your inquiries.

J. J. FRANSES & SONS,
LIMITED,
80a Southwark St., LONDON, S.E. 1.

PAINTING MATERIALS

Rayolene Black Japan

The ideal preparation for Cycles, Gas Stoves, Fire Ranges, Mail Carts, etc. etc. Guaranteed free from methylated spirits, and the same high-class quality as supplied to coach and carriage painters.

In Tins, to retail at 10d., 1/6 and 2/10

Rayolene Oil Varnish Stains

Far superior to the old quick-drying spirit varnishes and much easier to apply. Made in Oak, Walnut, Mahogany and Ebony.

In Tins, to retail at 10d., 1/6 and 2/10

SPECIAL OFFER. One box containing an assortment of above, your selection, sent carriage paid, for 54/- net; 3 boxes less 5% discount, one box contains 8 doz. 10d. size, or four dozen 10d., and two doz. 1/6 size.

Rayolene Home Dyes

THE HOUSEHOLD FAVOURITE. For Wool, Silk, Cotton, or mixed goods.

To retail at 4d. and 6d. per packet.

Write for complete Price List of Paints, Varnishes, etc.

TEXALO MANUFACTURING CO.

Paint and Varnish Manufacturers,
SOUTH SHORE, BLACKPOOL, LANCS.

WE SOLICIT YOUR ENQUIRIES FOR:—

OLIVE OILS, finest cream edible B.P.

SALAD OILS

PETROLEUM JELLY, B.P., White and Yellow

TURPENTINE, American Spirits and Substitutes

CASTOR OILS, all grades

COLZA OIL, finest and burning qualities

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LINSEED OILS, Raw and Boiled

MINERAL OILS, Bloomless "Lux" Brands

WHITE OILS, Slab and Commercial

LUBRICATING OILS of all descriptions

JAMES ARNOTT & SONS, Ltd., Newcastle-on-Tyne and Cardiff.

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OLIVE OIL

(GENUINE CASTILE)

SOAP

LEON FRENKEL,

10 Lime Street, LONDON, E.C.3.

TECHNICAL AND MEDICINAL
WHITE OILS.

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Deblobomed and Undebloomed.

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W. J. SMITH, SOLE EUROPEAN
REPRESENTATIVE,

THE JAMES B. BERRY'S SONS CO. Inc.

110 Cannon Street, London, E.C.4.

Wells' Removable Bung Pour
(PATENTED).

For emptying Casks
without Pump, Tap or
Stillage. Applied to and
removed from any cask
instantly. All waste and
mess prevented. More
rapid in action than a
pump. Will fit any
ordinary cask from 20
to 60 gallons.
Does not damage the
cask.



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Castor Oils, Medicinal,
Lubricating.

Colza Oils, Best Pure,
Prepared.

Linseed Oils,

Best Raw,
Double Boiled,
Refined.

Turpentines,
Best Pure Spirits.

Substitutes,

Best Grades.

Samples and Prices on Application.

**14-20 St. Mary Axe
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Telegrams—"Tallowdom London."

Tel. No.—Avenue 3320.

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RUBY YELLOW
GREEN

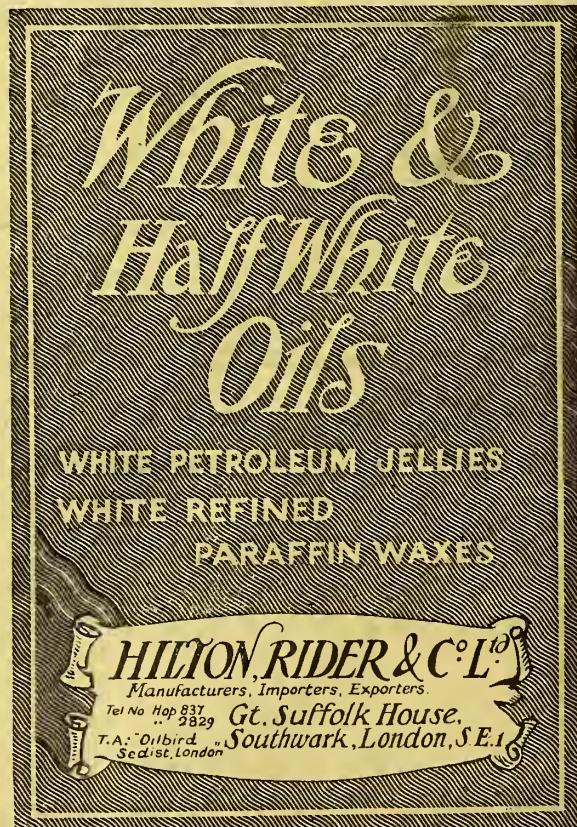
**BRILLIANTINE
OILS**

Any Quantity—from Stock.
Wholesale Only.

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W.M. BORTHWICK
1 and 2 Staniforth Place, HULL.

Telephone—Hull Central 4054Y (Trunk only).



Paraffin

Wax, B.P.

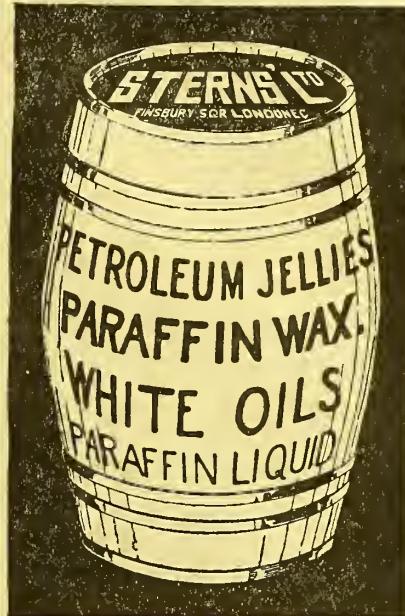
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*For
Immediate
Delivery*

Liquid Paraffins, B.P.
Petroleum Jellies, B.P.
Technical White Oil.
Toilet Paraffins.
Brillantine Oils.
Spray Oils.
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*Samples and Competitive Prices on Request.*

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Telephone : Hampstead 4046.

**STERNS LIMITED**

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Telephone :
3797 LONDON WALL.
(Four Lines.)Telegrams :
"CENTUMVIR, PHONE, LONDON."
(Two Words only.)

Genuine Russian

LIQUID PARAFFIN

All gravities, correct viscosities

"Jasmine Brand"

ADEPS LANÆLanolineSuperfine
Anhydr.
and Hydrous

"Jasmine Brand"

PETROLEUM JELLIES

White and Yellow

"Jasmine Brand"

WHITE OILSChem. Pure, Water-white,
Tasteless, Odourless
*FOR MANUFACTURING PURPOSES***B.P.****1914****Finest Qualities****Competitive
Prices****ALSO TRANSFORMER & INSULATING OILS.****The PURE RUSSIAN LIQUID PARAFFIN CO., Ltd.****3 St. Helen's Place, LONDON, E.C.3.**

Actual Refiners and Manufacturers at their Works near London.

CURACEA

LIQUID NERVE TONIC

P.A.T.A.

REGD.

Phone : New Cross 981.

£2 10 0 BONUS ORDER.

	<i>Costs</i>	<i>Selling Price</i>
1½ doz. 1/3 @ 11/-	£0 16 6	£1 2 6
1 doz. 2/9 @ 24/-	1 4 0	1 13 0
½ doz. 5/- @ 45/-	0 11 3	0 15 0
2½% extra discount C.W.O.	£2 11 9	£2 10 6
	0 1 3	0 7 6
	£2 10 6	£3 18 0
		Cost 2 10 6
		Profit £1 7 6

**PROFIT
56%**All orders carriage paid.
Attractive Showcards
and Counter Wrapping
Bills free on request.
Special prices for
Ireland.

CURACEA CO., ELM GROVE, LONDON, S.E. 15.

Put Osmos in your window!

In view of the continuous advertising of, and the rapidly growing demand for, this British Aperient Water, it will pay you to become known in your district as "a chemist who sells Osmos." It is on the P.A.T.A. at 2/6 per bottle.

Osmos

The Great British Aperient Water

EASY TERMS.—Six bottles sent carriage paid in Great Britain and Ireland on receipt of P.O. or remittance for 13/-. Case returnable, and when received carriage paid, the charge 2/- will be credited in full, or if retained, 1/-, viz. half-cost, will be credited.

Osmos, Crown Wharf, Hayes, Middlesex.

Vinum Xericum

BUTTS. HOGSHEADS. QR. CASKS.
108 gallons. 54 gallons. 27 gallons.

STRENGTH 17°

James V. Oldham
19 St. Dunstan's Hill, London, E.C. 3.

Telephone : Avenue 3013.

Specialists in
Photographic Albums
of exclusive design

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A very fine range of Paste-on & Slip-in Albums of exclusive and distinctive designs at prices from 2/- to 3/- subject

BOTTLES.

I can supply BRILLIANTINES, LIMES, OVALS, VIALS, CANNONS, KALIS, SCREW JARS, MEDICAL FLATS, SAUCE BOTTLES, &c., &c. Wholesale quantities only. Your inquiries solicited.

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PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

•VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C. 3.



ESTABLISHED 1785.

R. J. F. & B.'s world renowned Dairy Preparations are used and recommended at the PRINCIPAL DAIRY INSTITUTES and command by far the largest sale in Great Britain.

R. J. FULLWOOD & BLAND'S ANNATTO RENNET

"Oleo" and "Sunbeam" Butter Colouring. Rennet Powder, Essence of Rennet, Junket Tablets.

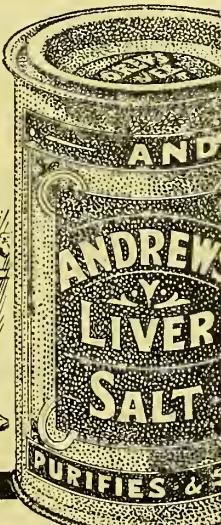
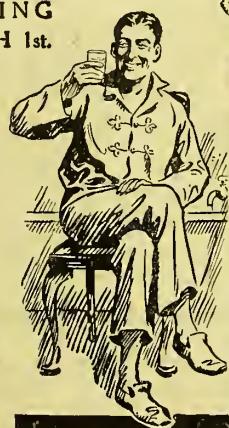
RENNET WORKS, ELLESMORE, SALOP.

Offices:

31, 33 and 35 Bevenden Street, HOXTON,
LONDON, N.

Increased Prices

OPERATING
From MARCH 1st.

USUAL
SIZE**1/-**FAMILY
SIZE**1/10**

To the Chemist—

These new Andrews' prices provide for a larger profit margin than before. Ordering by the gross, the profit is 25% on both sizes (3d. and 5½d. per Tin respectively). Andrews' Liver Salt gives its users the satisfaction which makes them buy again—regularly. If you already sell Andrews', you will know that this is so.

In case you have still to make the acquaintance of this quarter-of-a-century-old Home Medicine, we invite you to write for a free tin for your personal trial, and our Trading Terms.

SCOTT & TURNER, Ltd. Manufacturers (Dept. "C.D.") Newcastle-upon-Tyne, Eng.
LONDON DEPOT:—
I. C. Gambles & Co., 49 Farringdon Street, E.C.4.

ACETIC ACID

Canadian  Product.

SPOT & FORWARD DELIVERIES:

PURE, for edible purposes 80% PHARMACEUTICAL grade,

water-white, 99/100 %

GLACIAL Acid 98/100 %

TECHNICAL Acid 80%.

STOCKS HELD IN LONDON
AND LIVERPOOL.

SPECIAL GRADE for RUBBER
INDUSTRY.

*Packed in Demijohns.
Direct Shipment.*

**A. Boake, Roberts
& Co., Ltd.**

*Manufacturing Chemists,
Stratford, London,
E.15.*



MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

Telephones:
Nitshill—Pollokshaws 14
London—Avenue 5661
(3 lines).

PERRY & HOPE, Ltd.

Telegrams:
"Perryope, Nitshill."
"Perryope, Led, London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

Extract of Malt and Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

THE
BRITISH DIAMALT Co.
BISHOP'S STORTFORD.

Proprietors { H. A. & D. D. TAYLOR
H. D. & C. T. TAYLOR

BOTTLES

TOM LAYCOCK & CO.

(*Tom Laycock, Proprietor*)

Holbeck Lane - LEEDS.

We shall be pleased to have your inquiries for Mexicans, Limes, Kalis, Vials, Poisons, Screw Pomades, Honey Jars, Malt Jars, etc. etc.

Special terms to large Buyers.

INCREASED PROFIT ON NEW PRICE

3/6
INSTEAD OF
2/9

AS from March 1st, 1920, the New Retail Price of 3/6, instead of the old Pre-war Price of 2/9, will come into operation

ALL BRITISH-OWNED

ALL BRITISH-MADE



THE New Retail Price will mean increased Profit for the Chemist, A CLEAR PROFIT of 20% will be obtainable on the smallest quantities.

A FURTHER 5% PROFIT may be obtained by ordering a 6-dozen Parcel from any of the Wholesale Houses.

NEW PRICE LABELS

For any old-price stock on hand,
sent post-free on request direct to

S. KUTNOW & CO., LTD.

41 Farringdon Road, London, E.C. 1,

Who tender hearty thanks to all Chemists for past and future co-operation.

Neave's Food

New Revised Prices
from March 20, 1920

FIXED PRICES—FIXED PROFITS.

In consequence of the recent advance in the price of raw material which affects Manufacturers of Cereal Foods, also the present high price of tin, together with increased carriage, wages, etc., we are reluctantly compelled to revise the terms and selling prices of our 1/6 and 3/9 sizes of NEAVE'S FOOD. On and after MARCH 22 the following prices will come into operation—

1/6 size NEAVE'S FOOD advanced 2/- per dozen net, making the maximum and minimum retail selling price 1/8 per tin. 3/9 size NEAVE'S FOOD advanced 5/- per dozen net, making the maximum and minimum retail selling price 4/2 per tin.

ORDERS WILL BE EXECUTED AT PRICES CURRENT AT DATE OF DISPATCH.

For the present our 6d. packets of NEAVE'S FOOD, our 2/6 tins of MILK FOOD, and our 2/- and 6/- tins of HEALTH DIET remain unaltered.

OBTAINABLE FROM ALL WHOLESALERS.

JOSIAH R. NEAVE & CO., FORDINGBRIDGE

Any 1-lb. "war-time packets" still in stock will be exchanged by the Manufacturers for the new tin packing on payment of difference in price.

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK™

FRAME FOOD™

ON P.A.T.A. LIST.

SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.



**LIQ. SANTAL FLAV.
c. BUCHU et CUBEBA**

(Hewlett's)

Packed for dispensing only,
in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS
TRADE MARK

Of proved utility in Nervous Diseases,
and a powerful Restorative for the
Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet*.

WHOLESALE PRICES.

No. 1.	1½ oz. Tin ...	9/- per doz.
" 2.	3½ "	14/6 "
" 3.	6½ "	24/- "
" 4.	12 "	42/- "

**MIST. PEPSINA CO.
c. BISMUTHO**

(Hewlett's)

Packed for dispensing only,
in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal



Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.

AWARDED GOLD MEDAL AT INTERNATIONAL MEDICAL CONGRESS.
LONDON, 1913

Sanagen

NERVE FOOD

Trade Mark Regd.



a
money-Box
on your
counter

4 OZ.	8 OZ.	16 OZ.
Cost 2/-	Cost 3/3	Cost 6/3
Sells 3/-	Sells 5/-	Sells 9/6

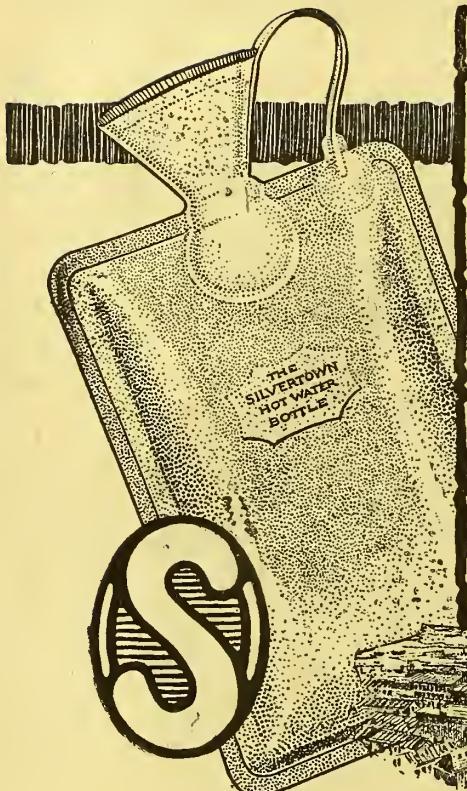
50% PROFIT TO YOU

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ALL WHOLESALERS STOCK IT

SANAGEN C^{O.}, L^{TD.}
SHEEPCOTE LANE, BATTERSEA,
LONDON, S.W.11.

Telephone: LATCHMERE 4363.



Business built on quality
is the most substantial.

THE
Silvertown

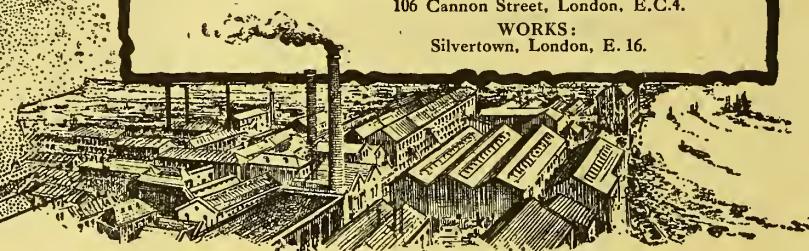
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is the product of over 60 years'
experience of rubber manufacture

Please send us your inquiries.

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(The Silvertown Company) Co. Ltd

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WORKS:
Silvertown, London, E. 16.



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(Honeycomb) 4/-, 6/-, 19/-, 12/-, 15/-,
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(Turkey) 9/- doz.

(Carded do.) 9d., 1/6, 2/3, 3/-, 4/6 doz.

BENT NAIL SCISSORS
30/- doz.

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(1 doz. on Card) 6/- doz.

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(Nickel) 18/- doz.

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LEEDS.



VINCENT WOOD'S

(GOLD MEDAL, GUARANTEED)

Hot Water Bottles

8/- lb. 12 x 8 weighs under 13 oz.

Covers for same, assorted sizes, 21/- doz.

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SUSPENSORIES
& Surgical Appliances**
AT LOWEST CURRENT RATES

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GOOD SELLING LINES, GOOD PROFITS,
AND ABSOLUTE SAFETY IN STOCKING

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FEET PLAISTERS AND POWDERS

STOCK IS RETURNABLE AT ANY TIME, FOR
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Every

"Ronoleke"

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makes a Customer
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The fact that the "Ronoleke" Bottle CANNOT leak makes satisfied customers who will have confidence in coming to you for all their other needs. Make sure of your supply of "Ronoleke" Guaranteed Unleakable Hot Water Bottles by ordering through your Wholesale House right away NOW.

They will supply you also with attractive advertising material, and the "Ronoleke" itself will advertise you in every purchaser's home.

Revised Prices.

Protected on the P.A.T.A. List.

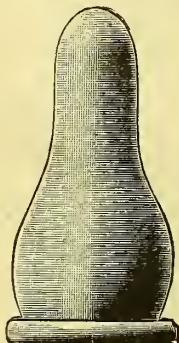
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6" x 8"	5/-	6/5	8" x 12"	7/1	9/2
6" x 10"	5/6	7/1	9" x 12"	7/5	9/7
7" x 10"	5/9	7/4	8" x 14"	7/8	9/11
6" x 12"	5/10	7/6	10" x 12"	7/11	10/2
7" x 11"	6/-	7/9	10" x 14"	8/11	11/5
8" x 10"	6/3	8/-	10" x 16"	9/9	12/7
7" x 12"	6/6	8/4	12" x 14"	9/11	12/8
6" x 14'	6/6	8/4	12" x 16"	10/6	13/3

Your Wholesale House will supply you



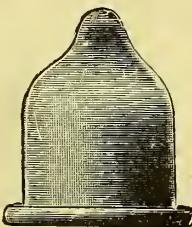
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TRANSPARENT BOAT-SHAPE



**Bottle
Teats**

16/6
per gross.



Transparent Valves - - - 11/- per gross
(Minimum 1-gross Orders).

WHIRLING DOUCHES 1 each in box at 4/9 each

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All kinds of Surgical Rubber Goods in Stock.

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Finest stout Rubber Ball and Vulcanite Mount. In Red Velvet and Red Enamel finish. Each in box.

54/- per dozen.

3-dozen lots and upwards,

51/- per dozen.

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It is not generally known that Corks made of Rubber are to-day 25% cheaper, are more serviceable, reliable, and give greater sealing facilities than any other kind. We specialise for the requirements of the Chemical Trade, and manufacture all standard sizes.

	Drab	Drab Ammonia Proof.	Drab Acid Proof.
Prices for 8-oz. Bottles ...	3/3	4/3 per gross	
" 16-oz. " "	4/9	5/9 "	
Other sizes—Prices on Application.			

SPECIAL PRICES FOR LARGE QUANTITIES.

We also manufacture BUNGS for $\frac{1}{2}$ -gall.
and 1-gall. Jars.

RED & BLACK RUBBER CORKS of
the Best Quality for Laboratory use.

Inquiries Solicited.

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*Manufacturers of all Rubber Specialities
for Medical, Chemical & Laboratory use,*

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Telephone: Letchworth 54. Telegrams: "Rubber Letchworth."

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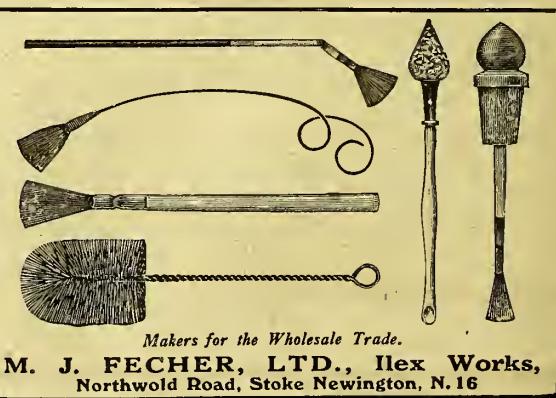
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(Laminaria Digitata)

For dilating the OS and CERVIX UTERI.

Quotations wanted for
SEA WEED RODS
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Manufacturer: E. BRASSE,
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Mustard?

—Yes! **RIGOLLOT'S Mustard Leaves**

for Plasters.

The original and only genuine.

Of all Chemists and Stores in

7d. & 1/- packets & 1/7 tins.

**67 Southwark Bridge,
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For GUARANTEED
ATOMIZERS and SPRAYS
THE DEVILBISS Co., LIMITED,
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Price Lists on Application.

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The thought behind the tube—

**"the patient
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Not "good enough," but the best from every standpoint—alone assures that degree of "Catgut Safety" demanded when the patient on the table is "one of my own family."

Only on this peculiarly personal basis is

"VAN HORN" CATGUT

supplied to the Profession.

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(Chromic Gut)

K-Y Lubricating Jelly
An Ideal Emollient.

K-Y Analgesic
The Greaseless Anodyne.

**Johnson & Johnson,
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Agents:
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	Sizes ...	1	2	3	4	5	6
No. 978.	Sponge Bag, Check Sheeting ... per doz.	7 0	8 6	10 0	12 0	14 6	18 0
" 978.	Super Best "	9 0	10 6	12 0	14 6	16 6	20 0
" 1200.	" Assorted Fancy Colours "	11 6	14 0	16 0	19 0	21 6	26 0
" 1200.	Brown, Double Faced Sheeting ...	11 6	14 0	16 0	19 0	21 6	26 0
" 1200.	Sponge Bag, Battiste Sheeting ... "	11 6	14 0	16 0	19 0	21 6	26 0
" 1534.	with one extra pocket (size 4) ...	...	...	...	...	...	per doz. 26 0
"	with two extra pockets (" 5) ...	...	...	...	...	...	42 0
1203	Sponge Wrap with Pocket Check Sheeting	...	...	per doz. 18 0	21 0	24 0	20 20 in.
				Sizes 16 x 16 in.	18 x 18 in.	20 x 20 in.	

BATHING CAPS

	Sizes	1	2	3	4
No. 976.	Circular Bathing Cap, Check Sheeting ... per doz.	7 6	9 0	11 6	13 6
" 428.	Helmet Shape Cap, Red Rubber, Lined Band, 6 sizes	...	...	...	per doz. 27 0
SPECIAL LINE	Cap, Finest Para Rubber, Assorted, 4 Colours, decorated, with frills, rosettes, etc.	...	...	...	25 0
"	Finest Para Rubber, Larger Caps, Assorted, 8 Colours	...	...	...	30 0
Bag for Bathing Costume, Waterproof Sheeting	...	...	...	...	42 0
WATER WINGS , Full Size, Best Quality, British Make	...	...	...	...	24 0

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.
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MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, Ltd.

91 & 92 GREAT SAFFRON HILL - LONDON, E.C.1



"NORVIC" CRÉPE BANDAGE (REGD.)

SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crêpe Bandage, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency will not be restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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The NORWICH CRAPE CO. (1856) Ltd. (ST. AUGUSTINE'S) SILK MILLS, Norwich, Eng.

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London Buyers can obtain samples & prices from MR. T. EASTAWAY, London Representative, Wool Exchange, E.C.2



3

Belladonna Plasters. Breast Plasters.

Attractively wrapped, best quality, readily saleable.

Breast Plasters are shaped and have small unperforated margin.

ZOPLA (Zinc Oxide Plaster) in small attractive tins in three colours.

Also on spools and in rolls. *The most popular Strapping.*

Strengthening, Corn and Bunion, Mustard, Rubber Adhesive, Holland Strapping, Plumbi Base, and all other Plasters.

HELVIA CRÉPE BANDAGES.

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LESLIES, LTD., 62 London Wall, London, E.C. 2.



The Brand "Ingram's London" is a Guarantee of Quality.

The India Rubber Hot Water Bottle with a reputation for Reliability, Perfect Construction, and Adaptability to all Conditions.

INGRAM'S
"Eclipse"
REGD.

HOT WATER
BOTTLE



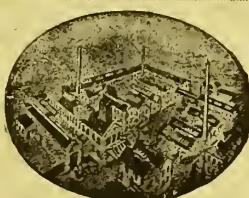
Fitted with a Washer that cannot be lost, and made with a Neck that cannot Leak.

Obtainable through all Wholesale Houses.

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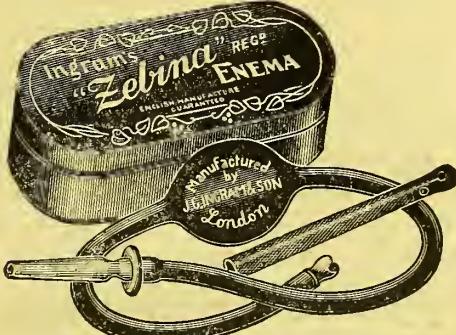
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THE LONDON INDIA
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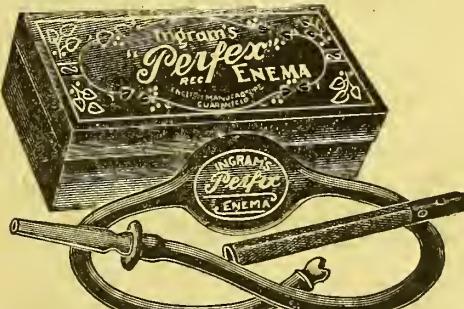
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Practical Workmanship. Perfect Construction.
Fitted Complete with Bone Rectum and Gum Vagina Pipe and Leather Shield, and packed in an attractive Card Box.

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A Reliable Quality Seamless Enema (Ordinary Bulb).
Perfectly Safe. Perfectly Hygienic. Fitted Complete with Bone Rectum and Vagina Pipe and Leather Shield, and packed in an attractive Card Box.

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Why Demand is still Growing.

Demand for the Nestlé Feeding Bottle is still growing—and it is growing because it is superior to any other feeder on the market. Its many advantages are so evident that mothers, thinking of the safety and comfort of their babies, are insisting upon the Nestlé Feeder.

The teat and rubber valve of the Nestlé Feeder are made with inner rolls which automatically cling and cannot be pulled off by the child. There is not the usual danger of swallowing the teat as in many other feeders. Pure plantation rubber is used in the manufacture of the teat and valve. Colic is prevented by the rubber valve regulating the flow of air behind the milk. This valve also ensures a steady milk flow in accordance with baby's need.

The central base, tapering flat under surface of the virgin glass feeder enables it to be tilted to, and remain in, any desired position. This saves the time usually occupied holding the feeder. It holds more—the feeding capacity is 10 oz.—sufficient for any child at one feed.

NESTLÉ Feeding Bottle

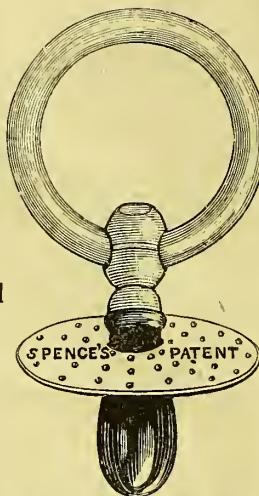
Every part of the Nestlé Feeder, including box, is British made. Every Feeder is sterilised before leaving the factory.

The margin of profit to you is good and the turnover rapid. Write us for full details and current Trade Price List.

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This is a Speciality of ours— Best Quality Well-Fitted and Attractively Carded.

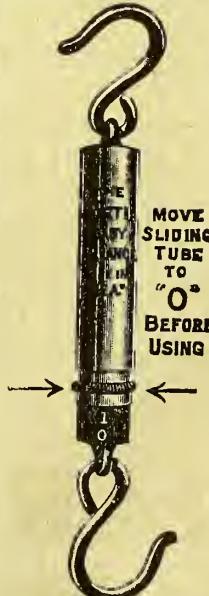


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(Money returned in full if not satisfied.)

Representative can call in London and Suburbs with Samples, upon receipt of Post Card.

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THE
"PORTIA"

(Regd.)

NET WEIGHT
Baby Balance

Weighs up to 15 lb.

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30/- dozen.	3/6 each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

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SPHAGNUM.—The Turf Moss is the *most absorbent* and generally useful surgical dressing. It absorbs twenty times its weight of moisture.

As compressed by us in sheet form it is pre-eminently convenient. The sheet may be used as it is, or loosely crushed and placed in extemporaneous muslin bags.

The moss in this form swells up the moment moisture comes in contact with it, and the dressing so formed is *resilient, spongy, and comfortable* to the patient.

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Packed to suit customers' requirements.

Special quotations for large quantities and contracts.

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THE "POPPY" CORN SILK

The picture represents the design, but the original is an Artistic Coloured Envelope.

THE "POPPY" CORN SILK (Emp. Acid. Salicylic c. Cannab. Ind.) is of the Highest Quality and Guaranteed Strength.

IT IS

A QUICK-SELLING LINE

PRICE 48/- PER GROSS.

COLOURED SHOWCARDS FREE.

We supply several other designs at the same price, and an extensive range at 9/-, 13/3, 24/-, and 36/- per gross.

A. de St. Dalmas & Co., Ltd.

Medical Plaster Manufacturers, LEICESTER.



MENDS EVERYTHING.

A PERFECT Liquid Glue CEMENT

Made from the finest materials obtainable. Guaranteed to retain its efficiency for Six Years. In 2d., 3d., 5d., & 7d. Tubes. Boxed in dozens. Also in Bulk for Carpentry, Joinery and Aeronautical Works, etc., 1-lb., 1-1b., 14-lb., and 28-lb. Tins.

Indent through Merchant Shippers. Export Cases at Cost, f.o.b. London.

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10 & 11 MINCING LANE, LONDON, E.C.

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The Best Quality**WEST-END PHARMACY SUPPLY**(R. Rios)
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Cachets. All sizes, plain and embossed. Orders accepted for coloured & printed

BLENOSAN CAPSULES

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PRECIPITATED CHALK

Lightest and Whitest, also Purest Dense Aug. Levermore & Co., Ltd. 8-10 Gt. St. Helens, LONDON, E.C. 3.

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When once introduced sells itself.

P.A.T.A. 1/3 From all Wholesalers.

E. MAC SWEENEY, Manufg. Chemist, CORK.

SHADEINE**FOR COLOURING GREY HAIR**

This popular article is largely advertised and stocked by all Wholesale Houses. Trial size 8d., per post 10d.; Medium, 1/4, per post 1/2; Large, 3/6, per post 4/-; 8d. size 6d.-doz.; 1/4 size 12d.; 3/6 size, 33/-doz.

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CACHETS "FINOT"

(White or Coloured). With Inscriptions in any desired tint: also Plain or Embossed.

A distinction all their own.—C. & D.

Perfection of Cachets. —Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.

In 17 Sizes, to fit the various types of Cachet Machines.

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ANILINE DYE MERCHANTS,

are still selling their well-known Aniline Dyes to retail in Penny Packets.

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4/- DOZ 6/- EACH PATA 43% PROFIT puts 100% P.A.T.A. profit in your pocket for just handing it over the counter. Our ads. in the press do the pushing and the show material brings them into the shop. Why not send p.c. for a box today, it comes carr. paid to you.

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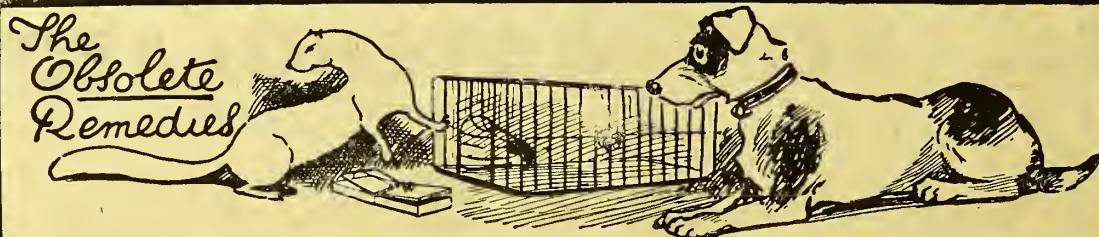
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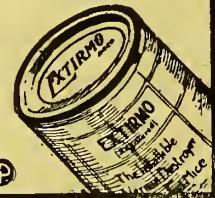
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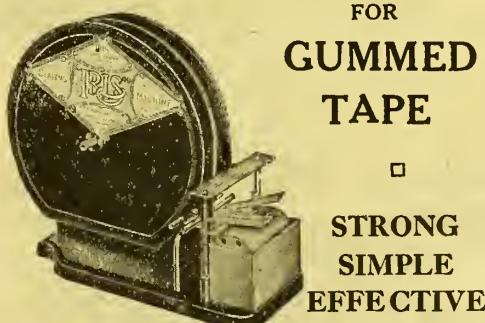
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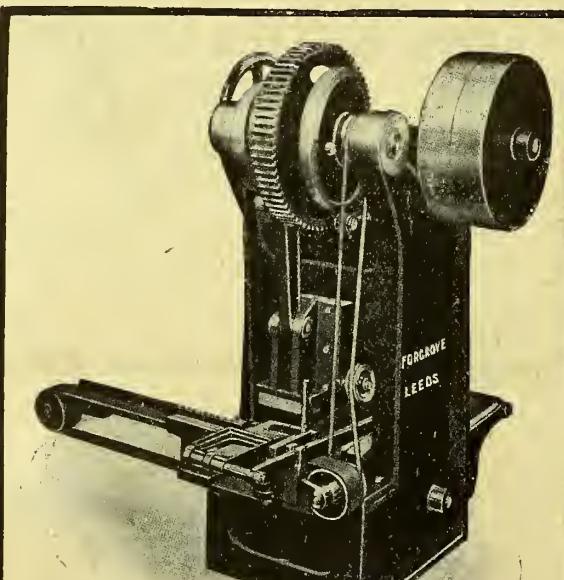
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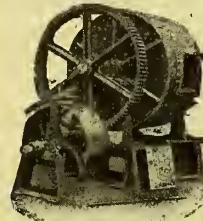
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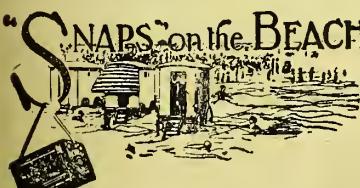
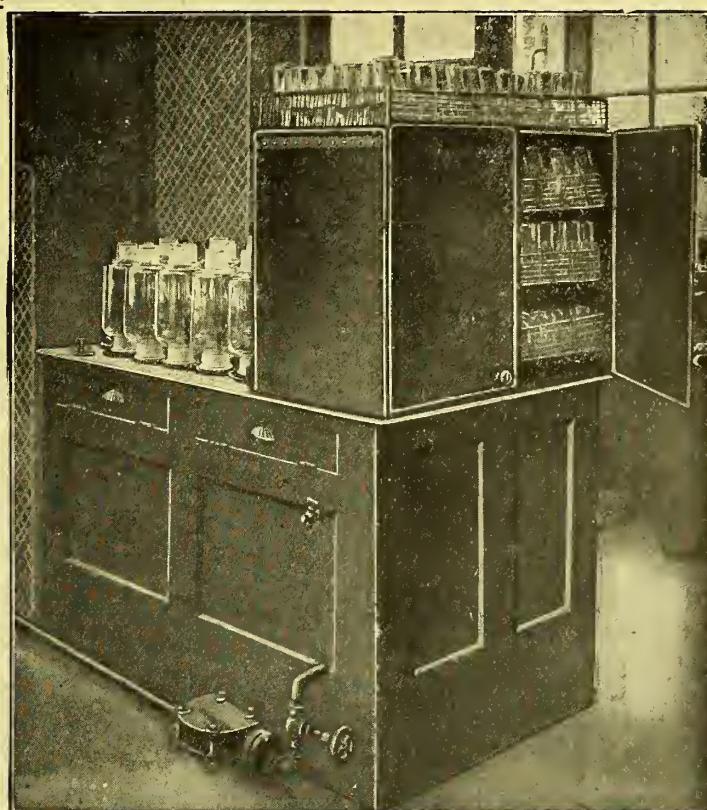
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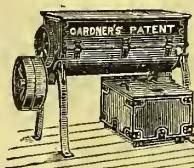
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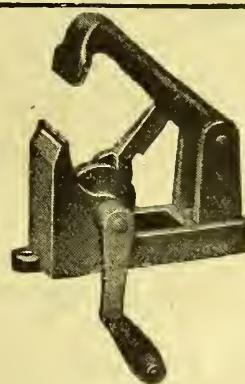
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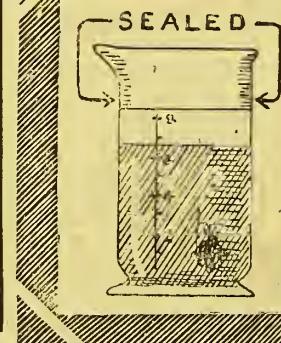
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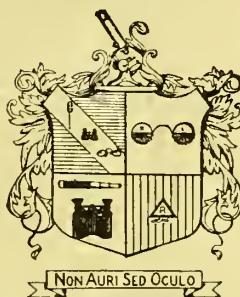
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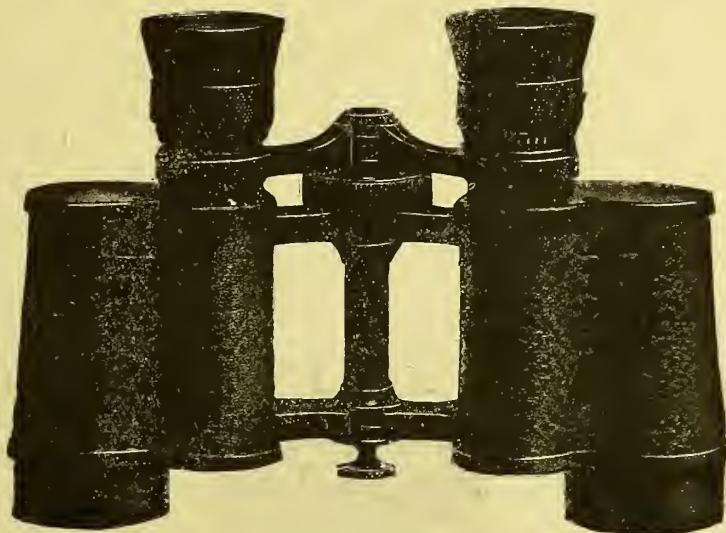


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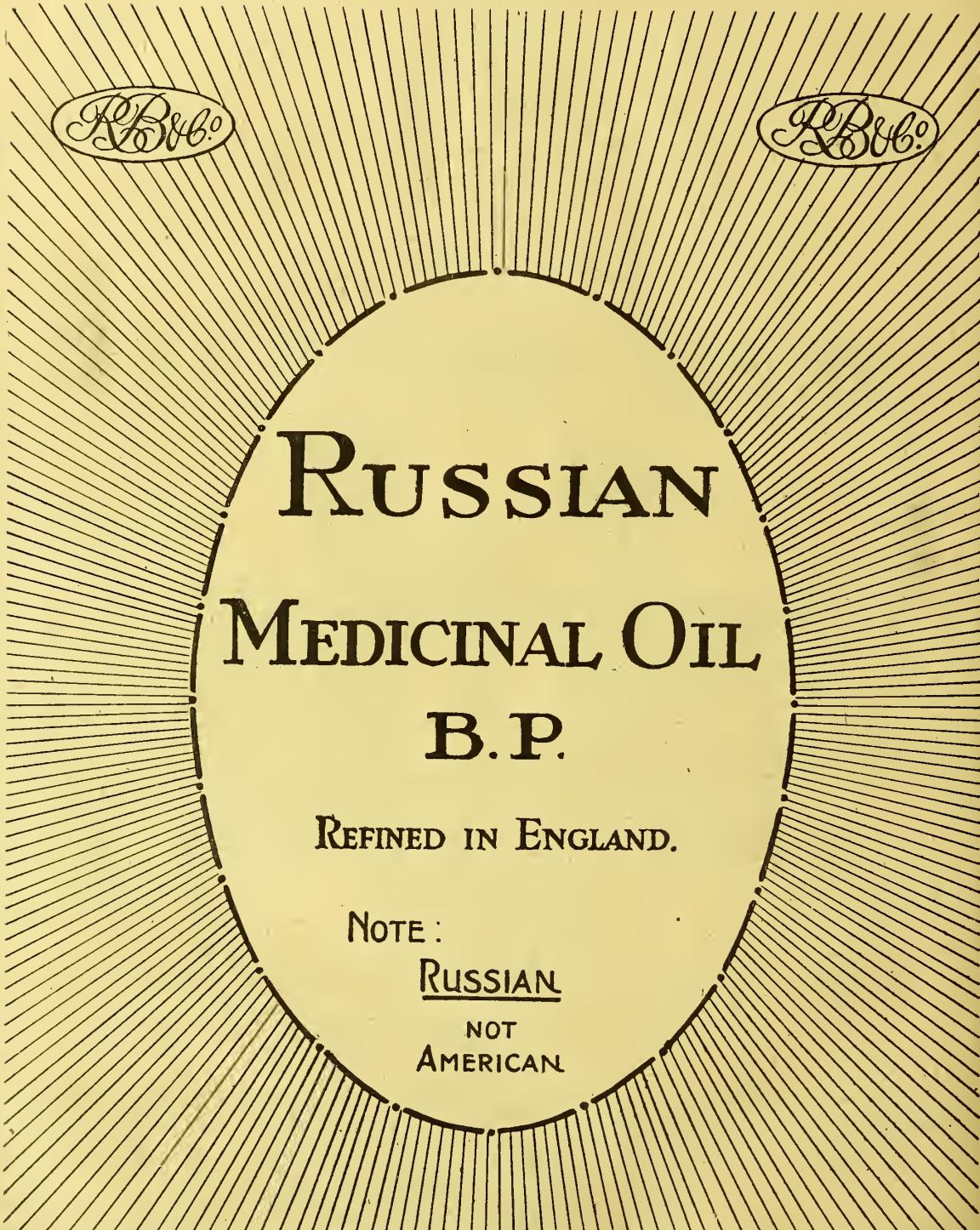
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Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

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1.—LONDON, S.W.—Good-class Retail Dispensing and Prescribing Business, in splendid main road position; returns over £3,200; long, valuable lease; good premises; handsomely fitted shop and fully stocked; only applicants with at least £2,000 at command need apply.

2.—LONDON, E.—For quick disposal; very profitable light Cash Retail Business, entirely under manager; returns £25 weekly, plus N.H.I.; plenty of scope for increase; low rent, on lease, 7-roomed house; good working stock; price £600, of which £300 can remain; manager with view to purchase entertained.

INTENDING VENDORS

We are in immediate want of sound businesses in all parts of England, especially London, South Coast, S.W. and Western Counties, Midlands and Home Counties, at prices ranging from £300 to £3,000.

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BUSINESSES WANTED.

6s. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A DVERTISER wishes to purchase small Business; £300 cash down, balance by instalments; Business in large village considered; mixed trade not objected to; any locality or position considered; living accommodation (not necessarily vacant) attached preferred; can pay cash down and take over at once. Walker, 58 Alderman's Drive, Peterborough.

A DVERTISER wishes to purchase small, genuine country Business; mixed trade not objected to; Southern Counties preferred; could take over at once. Full particulars, in strictest confidence, as to lease, rent and house, etc., to "Pharmacist," c/o Messrs. Wright, Layman & Umney, Southwark Street, S.E. 1.

B USINESS wanted in healthy London suburb; good house and garden preferred; neglected business considered if scope for expansion; advertiser would also entertain active partnership in large concern. Apply 41/5, Office of this Paper.

D OCTOR, well qualified, experienced in best-class practice and Hospitals, desires opening in good district within 100 miles of London; reciprocal relations with Pharmacists. Address P.C.B. 55/34, Office of this Paper.

MIDDLE-CLASS Cash Retail Business; one from which owner wishes to retire for preference; returns about £2,000; must bear every investigation. Apply 43/33, Office of this Paper.

P HARMACIST desires to take over Chemist's Business; Yorkshire preferred; neglected business not objected to, provided good prospects; will entertain management with view to succession; cash available £500, remainder as by arrangement; advertiser has exceptional London and provincial experience. "Manager" (44/16), Office of this Paper.

WANTED, a sound Business, suitable for unqualified (at once); not particular as to locality; partnership, with view to succession, entertained, but not preferred; cash available. "Genuine" (44/7), Office of this Paper.

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We have cash Buyers for all sizes and classes of business.

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Recommended by The British Drug Houses, Ltd., Messrs. Meggesy Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Whole sale Houses. Valuers to the Association of Manufacturing Chemist

AGENCIES.

6s. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

IMPORTANT.

**BRISTOL, CARDIFF,
SWANSEA, NEWPORT,
PLYMOUTH, MANCHESTER
LIVERPOOL.**

A leading firm of manufacturing chemists require Sole Buying Agents in the above towns to handle well-known and well-advertised preparations widely used in Factories, Collieries, Foundries and industrial establishments generally. Exceptional terms to up-to-date progressive firms.

Reply with full particulars to 15/21, Office of this Paper.

A GENTLEMAN, proceeding to Cape Town, with every experience in the Retail Drng trade, is anxious to undertake Agencies for English firms; experience in England, India and Colonies. Apply 78/27, Office of this Paper.

CHEMIST wishes to extend Agency connection with American, English, and Continental firms in the following trades: Chemists, Drugs and Druggists' Sundries, Oils, Perfumery and Synthetic Perfumeries, or any good selling lines. W. Galen, c/o Milton Advertising Agency, Bedford Chambers, K Street, Covent Garden, W.C. 2.

S MART Agents wanted to sell two good side-lines on commission ground covered. Apply 41/22, Office of this Paper.

SALES BY AUCTION.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-

M ESSRS TOPLIS & HARDING will SELL by AUCTION their SALE ROOMS, 137 Cheapside, London, E.C., TUESDAY and WEDNESDAY, April 13th and 14th, 1920 Merchant's Stock to clear, comprising:

7,000 dozen Tooth Brushes, 370 boxes Antipyrin, 7 pairs 1*lb* Clippers, 1 Gastroscope, 1 Rhino-Laryngoscope, and a quantity of miscellaneous stock.

Catalogues may be obtained on application to Messrs. Toplis & Harding, 28 Old Jewry, London, E.C., and at 21 Spring Gardens, Manchester.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LONDON, S.W.—Good-class Light Retail and Dispensing; nicely fitted and well-stocked Pharmacy; returns present rate nearly £2,500; March £221; plenty of scope for substantial increase; nice house and garden with side and back entrance; rent £65; price £1,250 cash. Apply 39/9, Office of this Paper.

LONDON (near City).—Retail and Dispensing; large double-fronted shop, with good living accommodation; working-class district; heavily stocked; showing over £500 per annum net profit after deducting all expenses; good lease; price for immediate sale, £750. "Ricini" (44/26), Office of this Paper.

MIDLANDS.—Light Cash Drug Store and Mixed Retail Business, growing district; moderate rent; living accommodation; suit qualified or unqualified man; returns average £600; price £350. "Midlands" (40/33), Office of this Paper.

VENICE (ITALY).—Old well-established Pharmacy, near St. Mark's Square; complete with stock and all fittings, and including annexe special Orthopaedic Department, to be sold, owing to proprietor's retirement from business; good foreign clientele; paying concern; capable of being worked up even more; 150,000 Italian lire asked, including stock, or reasonable premium and stock to be inventoried. Address to Signor J. H. D., Caanaregio 2040, Venezia, Italy.

CHIMIST'S Business, chiefly Dispensing; good-class residential district. Particulars as to shop (which is for Sale with the Business), turnover, etc., on application to Box 632, Robertson & Scott, 21 Hanover Street, Edinburgh.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

AMBERGRIS, a 5-oz. piece, in its natural condition as formed. Can be seen at Stevens' Auction Rooms, 38 King Street, Covent Garden, London, W.C.2.

CASH Till; size 19 x 10 x 7½; well-seasoned wood; polished imitation mahogany finish; fitted with 3½" recording paper; warning bell automatically rings every time drawer is opened; first cheque for £5 5s. secures same. Dudley, 451 Holloway Road, London.

FOR Disposal, complete set of solid mahogany Shop Fittings, including Wallcase, Counters, Dispensing Screen, Shelving, and Drawers, for shop 15½ ft. by 14½ ft.; may be seen any time. Fowke & Son, Chemists, Stafford.

FOR Sale.—12 gross 1-oz. Low Earthenware Pots, with celluloid caps; to clear in one lot will accept 23s. gross; single gross, 25s. 1 gross 2-oz. Amber Glass, Metal Screw-cap Pomade jars, 24s. Cash with order; carriage forward. Beadon, 3 Kew foot Road, Richmond, S.W.

No. 64 Stokes' Drug Mill for Sale, in best condition; almost new; offers. Brownhill-White, Ltd., Skinner Lane, Leeds.

SOILD Polished Mahogany and Plate-Glass Case; good reasons for selling; view any time after six; new condition; offers; Victoria district. Apply 38/3, Office of this Paper.

EST Case, containing 30 pairs each Convex and Concave Sphericals, 18 Convex and Concave Cylindricals, 12 Prisms, 10 Tinted Glasses, Single, Double and Adjustable Trial Frame, tenoptic and Pinhole Plates; best offer accepted, or would exchange for set of Kodak Earthenware Film Developing Tanks. Oldham, Chemist, Eton, Windsor.

PARTNERSHIPS.

AGENTLEMAN possessing the highest scientific qualifications and with extensive and successful experience in the manufacture of Alkaloids, fine Chemicals, and fine Pharmaceutical products, desires to negotiate with well-established Pharmaceutical house having sound home, foreign and colonial connection, with a view to an active Partnership. Address "Alpha," Reynolds & Sons, Solicitors, 7 Arundel Street, Strand, London, W.C.

OFFICE, WAREHOUSE, AND FACTORY.

ADVERTISER (Chemist) will provide above rent free for long term, in return for Partnership in a sound established business. Write fully, P.C.B. 55/28, Office of this Paper.

AMALGAMATION.**BUSINESS AMALGAMATION.**

ADVERTISER will be glad to correspond with Proprietors of Pharmacies, or firms, both Wholesale and Retail, with view to mutual amalgamation (not a scheme to appoint glorified agents), to compete with large company shops throughout the country. Apply, in confidence, to "A Pharmacy Proprietor" (44/21), Office of this Paper.

SITUATIONS OPEN.**RETAIL.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BATH.—Smart Junior Assistant (at once) in good-class Dispensing business. Apply, giving age and particulars of experience, with salary required (outdoors), Tyler & Cooper, Dispensing Chemists, 7, Bridge Street, Bath.

BOLTON.—Wanted, for May 3rd, qualified Assistant; elderly preferred, of temperate habits; very comfortable position; hours 9 to 8; Wednesdays 9 to 1; two hours for dinner; 1½ hour for tea. Apply in first instance by letter, giving particulars, age, salary required, etc., "C. D.", 230 Halliwell Road, Bolton.

LONDON, E.—Qualified Assistant for N.H.I. Dispensing and Retail, for small private company; outdoors; soon for permanency; capable and reliable. Please state age, salary, and usual particulars, to "Company" (38/2), Office of this Paper.

LONDON, E.—Qualified Manager required for Light Retail business with Insurance Dispensing, in a good suburban district; small house attached; interest in the profits to an energetic and persevering man. Apply "Park" (94/122), Office of this Paper.

LONDON, E.C.—For good-class Retail business, competent and experienced Assistant, accustomed to quick trade; must be thoroughly trustworthy, tactful, and energetic; qualification not essential; short hours; no evening or Sunday duty. Full particulars, with salary required, to 44/18, Office of this Paper.

LONDON, N.—Capable Junior Assistant for good-class modern Dispensing and Retail; must have good Photographic experience. Please give full particulars of experience, references, and salary required (outdoors), to Waterhouse, Chemist, 21 Loxfield Parade, Crouch End, N.8.

LONDON, N.—Junior Assistant (outdoors), male, unqualified, wanted for quick Counter and Dispensing business; usual hours; no Sunday duty; good experience can be gained. Apply, stating age, height, experience, and salary required, to Dow Bros., 433 Green Lanes, Harringay, N.4.

LONDON, S.W.—Wanted, Assistant (gentleman), accustomed to good-class Dispensing; unqualified; outdoors. Apply Cane, 10 Gloucester Road, South Kensington, S.W.7.

LONDON, W.10.—Wanted, Junior Assistant, unqualified, with some knowledge of Developing and Printing, for quick Dispensing, Retail, and Photographic business. Apply, giving full particulars, salary required (outdoors), and when disengaged, J. R. Faulkner & Co., 173 Ladbroke Grove.

LONDON, W.—Evenings; near Baker Street; each Thursday, 6 till 8 p.m., alternate Sundays, 6 till 8; qualified; reliable Dispenser and Counterman. Apply, stating particulars of experience and terms, to Goodall, Chemist, Ealing Road, Wembley.

LONDON, W.—Competent Assistant required; one accustomed to Dispensing preferred. Write or call, John, 12 Wigmore Street, London, W.

MANCHESTER.—An experienced second Assistant (unqualified) required for the Retail Counter. State fully previous experiences, age, and salary expected, to 23/9M, Office of this Paper.

MANCHESTER (Near).—Junior Assistant. Apply, stating age, experience, and salary required (outdoors), to 9/3E, Office of this Paper.

NEAR MANCHESTER.—Manager for branch, working-class and N.H.I.; ambitious young Pharmacist; could take over business after short period, proprietor having other interests. Required also an unqualified Assistant. Give references in first letter to "Radix" (42/23), Office of this Paper. Will advertiser kindly send his name and address to this Office.

NORFOLK COUNTY MENTAL HOSPITAL, Thorpe, Norwich.—Dispenser (male) required at the above Hospital; salary £200 per annum (no emoluments); must be a qualified man and under 40 years of age. Apply, by letter, to the Medical Superintendent.

PRESTON.—Qualified Manager required for working-class business; N.H.I. Dispensing; must be good Counterman; liberal interest in the profits. Apply "P." (94/120), Office of this Paper.

SOUTHPORT.—Wanted, Junior Assistant, who has had experience in good-class Retail and Dispensing. State usual particulars, age, experience, salary required, and when at liberty, to J. Righton, 513 and 515 Lord Street, Southport.

STOKES-ON-TRENT.—Wanted (immediately), Second Assistant, qualified preferred, for good-class business; moderate N.H.I.; no heavy trade; state age, experience, and salary required. Edmund Jones (Exors.), 60 Miles Bank, Hanley, Stoke-on-Trent.

SWANSEA.—Qualified Manager required for good middle-class business, situate in healthy residential suburb; excellent house; good terms offered; applicants must be of the energetic and go-ahead order. Apply "Swansea" (94/12), Office of this Paper.

WEYEMOUTH.—Smart, qualified Assistant required (immediately); must be a good Salesman and have a knowledge of Amateur Photographic work; please give full particulars in first letter; salary £260 p.a. Cole & Son, Weymouth.

A COMPETENT, unqualified Assistant required for market town in West of England; one used to a good-class country and Agricultural trade; comfortable permanency; rooms on premises for married man; please state full particulars and salary required. Apply 43/38, Office of this Paper.

ASSISTANT, unqualified (at once), for General Retail and N.H.I. Dispensing; outdoors. Apply, personally or by letter, stating salary required and full particulars, etc., to "Statim" (44/9), Office of this Paper.

ASSISTANT or Improver, outdoors, male or female, 20 to 22, wanted at once; middle-class Counter trade principally; comfortable berth; London suburb; 15 miles from city. Apply, with all particulars of experience, salary, etc., to 41/4, Office of this Paper.

ASSISTANT (unqualified) required for Light Retail and Dispensing business. Apply, with usual particulars, stating salary required, to R. H. Fowler, 56 London Road, Southampton.

EXPERIENCED Assistant, mainly for front Counter; good-class business; reasonable hours; please give full particulars first letter. Maunder, Chemist and Optician, Taunton.

IMMEDIATELY.—Smart, unqualified Dispenser; must be accustomed to first-class Dispensing. Apply, giving references and full particulars of experience and salary required, to Davis & John, Chemists, Bath.

IMPROVER wanted for good-class business; ample scope for increasing knowledge of Dispensing and Counter; another Assistant kept; or an Apprentice would be entertained. Apply, stating salary desired (outdoors) and usual particulars, to Slade, 3 Station Parade, Kew Gardens.

JUNIOR in first-class West-End establishment; must have had good training; several Assistants kept. Apply, with full particulars, to "G. W.", c/o British Drug Houses, 22 Graham Street, City Road, N.

JUNIOR (gentleman) wanted; Counter, Window-dressing, Dispensing; hours 9 to 7.30; no Sunday duty. Bellamy & Wakefield, Pharmaceutical Chemists, 1 Easy Row, Birmingham.

JUNIOR Assistant; good all-round experience; hours 9 a.m. to 7 p.m., Saturdays 8 p.m., Wednesdays 1 p.m. Apply, stating salary required (outdoors), Arnold Roberts & Co., Acton, W.3.

JUNIOR or Improver required immediately, with knowledge of Photography, in good-class Dispensing business. Apply Henry Davis, Newbury, Berkshire.

JUNIOR Assistant for Light Retail and Dispensing (N.H.I.) outdoors; no Sunday duty; please give full particulars of experience, references, and salary expected. Raynes Dispensing Chemists, Ltd., 28 Bath Row, Birmingham.

JUNIOR, just finished apprenticeship, for good-class Retail and Dispensing business in Central London. W. Jones & Co., 134 Southampton Row, W.C.1.

LADY Assistant required; permanency; good Retail Dispensing and Counter experience absolutely essential, and preferably one who has served apprenticeship; 50s. weekly (paid monthly) outdoors; 50-hour week; applications in writing, with photo if convenient. Sadler, Chemist, Crawley, Sussex.

LADY Dispenser wanted in small country town; state experience and salary required to live out. Doctors Harrison and McKean, Ledbury, Herefordshire.

MESSRS. BOULTON & SKELTON, LIMITED, Chemists, Hain ton Square, Grimsby, will shortly require one or two qualified men; easy hours; good position; progressive salary to suitable men. Applicants are requested to send full particulars etc., to above address.

QUALIFIED Manager; good-class Light Retail; Optics preferable; outdoors; married or single; South Coast; permanence for suitable man. State experience, salary, and full particular in first letter, and photo, to "X.", c/o Harker Stagg Ltd., Emmott Street, Mile End, London, E.

QUALIFIED Manager and smart Junior for Branch; reliable interview. Venables, 211 King Street, Hammersmith, W.6

QUALIFIED Chemist wanted (immediately) as a Branch Manager; must reside in and have London experience highest wages for suitable applicant, who must have a knowledge of Photography and Optics; highest references required. Apply to Parke's Drug Stores, Ltd., 65 Harmond Street, Kentish Town N.W., any morning (except Saturday) between 10.30 and 11.3 a.m.

QUALIFIED Assistant wanted; used to high-class Pharmacy. Write, stating age, experience, and salary required, T. R. L. c/o The British Drug Houses, Ltd., Graham Street, N. 1.

QUALIFIED Manager wanted for branch shop; living-hous attached; state wage required, age, and references. Addres Drug Department, City of Bradford Co-operative Society, 65 Sunbridge Road, Bradford.

REQUIRED, fully-qualified lady Chemist; part or full time. Apply P.C.B. 54/24, Office of this Paper.

SAVORY & MOORE, 29 Chapel Street, Belgrave Square, require a qualified Junior Assistant early in May. Apply by letter giving full particulars, to Manager at above address.

SMART Improver or Junior required; must possess undeniably references and live in vicinity. Vincent & Co., 13 King Edward Parade, Norbury, S.W.

SMART Junior or Improver wanted; good personal and bus ness references necessary; daily, 8.30 to 8 p.m.; two hour duty each Sunday; whole-day holiday weekly; must live in vicinity; state salary required. Vincent & Co., 94 High Street Clapham.

SMART unqualified Assistant (gent.) for Counter; knowledge of Photography, etc. State wages and experience, send photo to W. E. Matthews, Ltd., 40 George Street, Croydon.

WANTED, Assistant, unqualified, must be a reliable, experienced Dispenser, for a business in N.W. district. Apply stating height, age, salary required, to "Spes" (42/16). Off of this Paper.

WANTED, Assistant, with good experience; outdoors. Apply giving full particulars, or by personal call, Dyson & C. 35 Gloucester Road, South Kensington.

WANTED, Junior Assistant, unqualified (outdoors), accustomed to quick cash business; hours 8.30 till 7 p.m., 1 o'clock Thursdays; no Sunday duty. Apply, with full particulars of experience and salary required, to E. J. Kitson, Worcester.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LONDON Wholesale Druggists.—Young Assistant wanted, 20 to 22, to act as help to Buyer (Chemicals and Drugs); previous experience in a Drug house necessary; good opportunity to gain market and buying experience. Apply by letter, stating salary, £7/3D, Office of this Paper.

ANALYTICAL Chemist required; must have Major Diploma at least, and experience of practical Pharmaceutical analysis. Please state full particulars as regards experience, qualifications, and salary required in first instance, to Works Manager, Ucal, Hellesdon Spa.

ASSISTANT required, age about 20-25, with good knowledge of Druggists' Sundries and Surgical Instruments; opportunity for a really smart man. Apply, stating experience and salary, £300D, Office of this Paper.

CHEMIST required by Wholesale Druggists in London, accustomed to Standardisation of Galenicals, etc. Apply "Rheum" 3/3W, Office of this Paper.

DRUG Wet Room Hand, experienced, required; South of England; free removal. Please state age, experience, wages desired, etc., 43/16, Office of this Paper.

DRUGGISTS' SUNDRIES.—Experienced man required for Post Order Department. Reply to "Surgman," Box 871, Samson Clark & Co., Ltd., 58 Great Portland Street, W. 1.

DRUGGISTS' Sundries, Toilet and Manicure Requisites.—A first-class City House, manufacturing and dealing in above, require (at once) an experienced man, to supervise and check assembling and despatching of orders; must be active, courteous, and methodical worker; preferably under 35. Apply, giving full particulars re age, experience, salary, when disengaged, 33/6R, Office of this Paper.

FLOOR Assistant required (at once) for City Wholesale Druggists; previous experience essential, and good prospects for a smart, energetic man. Apply by letter, giving full particulars as to past experience, in confidence, to 14/4H, Office of this Paper.

MAGER required for Wholesale Druggist's Steam Laboratory in Yorkshire. Apply, with full particulars, age, experience, salary, etc., to 14/5H, Office of this Paper.

QUALIFIED Chemist required to assist in Wet Poison room. Apply, giving full particulars of experience, salary required, to Southall Bros. & Barclay, Ltd., Wholesale Druggists, Upper Priory, Birmingham.

REPRESENTATIVE required for Northumberland, Durham, and Cumberland, to take over an existing connection capable of considerable increase; lines: Proprietary Food Preparations, including a good Tonic Wine; commission basis; please supply all particulars with application. "Food" (25/2N), Office of this Paper.

REPRESENTATIVE required for London and suburbs; must have good-class connection amongst Wholesale and Retail Stores, Chemists, etc., Fancy Goods, and General Sundries; commission or salary and commission basis. Full particulars to P. B. 55/38, Office of this Paper.

REPRESENTATIVES, with established connection among Chemists, Hairdressers, etc., required for following territories: London and suburbs, South-Eastern and Southern Counties, and North Wales; to keen Salesmen who can handle attractively packed Toilet Lines 15% commission will be paid; please state lines carried and exact territory covered. P.C.B. 55/280, Office of this Paper.

RGICAL INSTRUMENTS AND APPLIANCES.—Experienced Salesman required, with knowledge of fitting, for London. Reply "Surgman," Box 865, Samson Clark & Co., Ltd., 58 Great Portland Street, W. 1.

TRAVELLER.—A leading firm of Manufacturers require a Representative, with good connection amongst provincial Chemists, etc.; could also work other non-competitive lines. Write, stating ground covered, firms or articles now representing, 37/4T, Office of this Paper.

TRAVELLER required to carry well-known article with very large sale among Chemists, Stores, and Wholesale Sundries men as side-line; liberal commission to gentleman with extensive live connections regularly visited. Write or call mornings, "Automatic," 52 Gray's Inn Road, London.

TRAVELLER required, with connection amongst London Wholesale Druggist Sundriesmen; state salary required, etc. Also Travellers, on commission, for Wales, Midlands, Ireland, and Scotland, for valuable Agencies. State full particulars and ground covered. Apply 3/4B, Office of this Paper.

VETERINARY INSTRUMENTS.—Manager required with thorough knowledge of Buying and Selling of above. Reply "Surgman," Box 867, Samson Clark & Co., Ltd., 58 Great Portland Street, W. 1.

ANTED (at once), a temporary Laboratory Porter. Apply 15 Bouvierie Street, Fleet Street, E.C.

ANTED, for South-West London, Counties of Sussex and Hampshire, a young and ambitious man, with knowledge of Pharmacy, as Representative, to call on Chemists and Doctors; previous Travelling experience a recommendation, but not absolutely essential; splendid opportunity to be associated with a firm of the highest standing in the Pharmaceutical world. Write, giving full details of experience, age, salary desired, and Pharmaceutical qualifications, 1/400A, Office of this Paper.

ANTED, for Liverpool and Lancashire, a young and ambitious man, with knowledge of Pharmacy, as Representative, to call on Chemists and Doctors; previous Travelling experience a recommendation, but not absolutely essential; splendid opportunity to be associated with a firm of the highest standing in the Pharmaceutical world. Write, giving full details of experience, age, salary desired, and Pharmaceutical qualifications, 1/4A, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

CANADA and South America Representative wanted by an up-to-date firm manufacturing all kinds of Toilet articles suitable for Chemists' and allied trades; Paste, Creams, Jellies, etc., in collapsible tubes, Soothing Teats, Feeding Bottles, Tin Boxes, etc.; substantial commission; many accounts already opened. Apply 39/11, Office of this Paper.

EAR EAST.—A qualified Assistant, not over 30 years of age; must have had experience in first-class Retail and Dispensing business; good salary for the right man; passage paid out and home, on a four years' agreement. Address 41/20, Office of this Paper.

PARIS.—Wanted, Assistant for English Pharmacy; accustomed to good-class Retail and Dispensing. Apply American Drug Supply Company, 6 Northumberland Avenue, London, W.C. 2.

RODESIA.—An opening for a young qualified Assistant who has had good Dispensing experience; prospects excellent and climate delightful; cost of living reasonable, excellent board costing about £10 per month; three years' agreement; passage paid out; salary offered £27 10s. per month for the first year, £30 per month for second, and £32 10s. third, with furnished bedroom. Apply by letter only to "C. M. N." 25 Arrol Road, Beckenham, Kent.

TRAITS SETTLEMENTS.—Young Assistant, unmarried, with Chemist's qualification, a good knowledge of Optics desirable; four years' agreement; passage paid out and home; salary first year £490, second and third years £525, fourth year £560. Apply 140/34, Office of this Paper.

ANTED, man for abroad, thoroughly practical with Bleaching of Beeswax, Compounding of Insulating Waxes, Cere-sines, etc.; capable of superintending factory. Apply 43/8, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A JUNIOR (23), unqualified, good all-round experience, requires a situation in London, Midlands, or East Coast. Apply 38/5, Office of this Paper.

A LADY Dispenser-Bookkeeper (Hall) desires post with Doctor, Chemist, or Institution; disengaged shortly; capable and reliable; West of England or Wales preferred, but not essential. Apply 90/15, Office of this Paper.

A QUALIFIED Chemist desires immediate employment; permanent, Locum; West of England preferred; Photographic expert, with up-to-date methods; state all requirements and salary offered; satisfactory work guaranteed in fullest detail. Apply 43/32, Office of this Paper.

A DVERTISER, unqualified, wants part-time in London; 6 years' pre-war experience. Write, 43/40, Office of this Paper.

A N experienced Assistant requires good berth; unqualified; Dispensing, Photographic, Optics; could manage and control staff; 25 years' experience; reliable and punctual; good references; married. F. G. Gorell, 57 Western Road, Brighton.

A S Assistant Dispenser; unqualified (lady); five years' experience. Apply "E. A. P." 596 High Road, Streatham, S.W. 16.

A S Locum; experienced Counter, Dispensing; abstainer; booking dates; terms moderate; disengaged; highly recommended. "Chemicus," 2 Christian Road, Preston.

A S Manager; qualified, thoroughly experienced, competent, industrious; recommended after six years' service by Allen & Lloyd, Ltd., Chemists, Aldershot and Fleet. Address "R." 173 Fleet Road, Fleet, Hants.

A SSISTANT; unqualified; 28; married; good-class Dispensing and Counter experience; disengaged. Lafford, Wilden, Gwynne Road, Upper Parkstone, Dorset.

A SSISTANT, unregistered; permanency; one change last 10 years; 20 years' town experience Counter, Dispensing, Photographics; excellent references; disengaged; tall. 18 Rathcoole Parade, Hornsey, N.

A SSISTANT (Senior); unqualified; temporary or permanent; disengaged; good references. "Chemist," 10 Church Street, Maidstone.

A SSISTANT; 16 years' all-round experience; high-class Dispenser, indentured, would manage Drug Store; experienced motor driver; good references; married; unregistered. Apply Pickles, 4 Pale Sides, Ossett, Yorks.

A SSISTANT; 34; single; unqualified; all-round experience; disengaged April 10th. Yardley, Ruabon, Denbighshire.

A SSISTANT (26); unqualified; Dispensing and Counter experience. Webb, 3 Clayton Street, Skelmersdale, Lancashire.

A SSISTANT; excellent General experience; Counter, Windows, or will manage Drug Stores; very reasonable salary. A. (44/28), Office of this Paper.

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